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DEPARTMENT OF AGRICULTURE  
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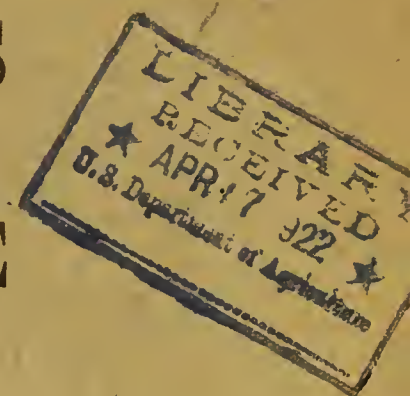


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# ESTIMATES OF APPROPRIATIONS

—FOR THE—

# DEPARTMENT OF AGRICULTURE



REQUIRED FOR THE SERVICE OF THE  
FISCAL YEAR ENDING JUNE 30

## 1921

PREPARED FOR THE USE OF THE COMMITTEE ON AGRICULTURE,  
HOUSE OF REPRESENTATIVES

NOTE.—Matter or items appearing in the last appropriation act and proposed to be omitted from these estimates is inclosed in heavy brackets, thus [ ].

New or substituted matter appearing in miscellaneous appropriations is printed in *italics*.

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WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1919

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# United States Department of Agriculture.

## COMPARISON OF ESTIMATES OF APPROPRIATIONS FOR 1921 WITH APPROPRIATIONS MADE FOR 1920.

Titles of appropriations.	Total of appropriations for 1920.	Total of estimates for 1921.	Apparent increase in estimates for 1921 over act for 1920.	Actual increase in estimates for 1921 over act for 1920.	Apparent decrease in estimates for 1921 below act for 1920.	Actual decrease in estimates for 1921 below act for 1920.
<b>OFFICE OF THE SECRETARY.</b>						
Statutory salaries, Secretary's Office.....	\$500,520.00	\$475,860.00			\$24,660.00	\$24,660.00
Statutory salaries, Office of Farm Management.....	84,430.00	105,740.00	\$21,310.00	\$12,210.00		
General expenses, Office of Farm Management:						
Farm management and practice.....	194,287.00	506,250.00	288,090.00	297,190.00		
Cost of production.....	23,873.00					
A net increase of \$284,740.	803,110.00	1,087,850.00	309,400.00	309,400.00	24,660.00	24,660.00
<b>WEATHER BUREAU.</b>						
Statutory salaries.....	342,890.00	349,310.00	6,420.00	1,200.00		
General expenses:						
Central office expenses.....	109,250.00	116,190.00	6,940.00	6,940.00		
Printing office.....	12,800.00	15,000.00	2,200.00	2,200.00		
Station salaries.....	672,500.00	726,800.00	54,300.00	55,500.00		
Special observations and reports.....	129,040.00	134,540.00	5,500.00	5,500.00		
Telegraphing and telephoning.....	295,750.00	298,750.00	3,000.00	3,000.00		
Miscellaneous station expenses.....	206,940.00	213,340.00	6,400.00	6,400.00		
Traveling expenses.....	26,000.00	28,200.00	2,200.00	2,200.00		
Aerological stations.....	85,040.00	281,020.00	195,980.00	200,000.00		
Forest fire warning service.....		15,000.00	15,000.00	15,000.00		
Marine meteorological work.....		50,000.00	50,000.00	50,000.00		
A net increase of \$347,940.	1,880,210.00	2,228,150.00	347,940.00	347,940.00		
<b>BUREAU OF ANIMAL INDUSTRY.</b>						
Statutory salaries.....	553,150.00	658,790.00	105,640.00			
General expenses:						
Inspection and quarantine.....	525,000.00	557,660.00	32,660.00	40,020.00		
Tuberculosis of animals (operating expenses).....	500,000.00	1,480,440.00			19,560.00	
Tuberculosis of animals (indemnities).....	1,000,000.00					
Eradicating cattle ticks.....	691,980.00	681,160.00			10,820.00	2,400.00
Live-stock demonstration.....	50,000.00	50,000.00				
Dairy industry.....	350,370.00	390,800.00	40,430.00	54,850.00		2,700.00
Animal husbandry.....	224,100.00	411,460.00	187,360.00	195,280.00		2,200.00
Military horse breeding.....	36,940.00	36,940.00				
Poultry feeding and breeding.....	58,640.00	58,640.00				
Equipping sheep station.....	8,000.00	12,000.00	4,000.00	4,000.00		
Diseases of animals.....	75,160.00	93,730.00	18,570.00	18,970.00		
Abortion of animals.....	49,400.00	47,720.00		1,680.00	1,680.00	
Eradicating hog cholera.....	446,865.00	441,145.00		5,720.00	5,720.00	
Control of viruses.....	163,560.00	188,280.00	24,720.00	23,180.00		
Hog cholera research.....	30,620.00	29,520.00		1,100.00	1,100.00	
Eradicating dourine.....	88,800.00	85,200.00			3,600.00	1,200.00
Administrative expenses.....	26,686.00	26,686.00				
Meat inspection, Bureau of Animal Industry:						
General meat inspection.....	803,960.00	868,280.00			35,680.00	1,080.00
Equine meat.....	100,000.00					
A net increase of \$335,220.	5,783,231.00	6,118,451.00	413,380.00	344,800.00	78,160.00	9,580.00
<b>BUREAU OF PLANT INDUSTRY.</b>						
Statutory salaries.....	491,280.00	529,760.00	38,480.00			
General expenses:						
Pathological laboratory.....	62,020.00	77,020.00	15,000.00	15,000.00		
Fruit diseases.....	72,935.00	79,935.00	7,000.00	7,000.00		
Pecan diseases.....	8,000.00	8,000.00				
Citrus canker.....	196,320.00	109,720.00			86,600.00	85,000.00
Forest pathology.....	82,315.00	81,115.00			1,200.00	
Blister-rust control.....	220,728.00	214,168.00			6,560.00	1,080.00
Cotton and truck diseases.....	87,800.00	108,900.00	21,100.00	23,500.00		
Crop physiology.....	48,460.00	46,860.00			1,600.00	





## Comparison of estimates of appropriations for 1921 with appropriations made for 1920—Continued.

Titles of appropriations.	Total of appropriations for 1920.	Total of estimates for 1921.	Apparent increase in estimates for 1921 over act for 1920.	Actual increase in estimates for 1921 over act for 1920.	Apparent decrease in estimates for 1921 below act for 1920.	Actual decrease in estimates for 1921 below act for 1920.
<b>BUREAU OF PLANT INDUSTRY—continued.</b>						
General expenses—Continued.						
Bacteriology and nutrition.....	\$39,060.00	\$49,060.00	\$10,000.00	\$10,000.00		
Soil-fertility investigations.....	35,060.00	55,060.00	20,000.00	20,000.00		
Crop acclimatization.....	93,910.00	93,910.00				
Cotton seed interbreeding.....	7,500.00	7,500.00				
New Zealand flax.....	3,000.00	3,000.00				
Drug and other plants.....	58,820.00	59,820.00	1,000.00	1,000.00		
Crop technology.....	24,940.00	24,940.00				
Biophysical investigations.....	32,500.00	32,500.00				
Seed-testing laboratories.....	36,680.00	49,580.00	12,900.00	12,900.00		
Cereal investigations.....	137,505.00	221,305.00	83,800.00	73,400.00		
Corn improvement.....	40,000.00	40,000.00				
Black and stripe rust.....	100,000.00	91,200.00		8,800.00	\$8,800.00	\$1,080.00
Barberry eradication.....	150,000.00	147,200.00		2,800.00	2,800.00	
Corn root and stalk diseases.....	25,000.00	25,000.00				
Cereal disease control.....	50,000.00	50,000.00				
Tobacco investigations.....	32,000.00	32,000.00				
Alkali and drought resistant crops.....	24,280.00	23,080.00			1,200.00	
Sugar plants.....	71,615.00	71,615.00				
Improving sugar-beet seed.....	10,000.00	10,000.00				
Cane and sorghum sirup.....	12,500.00	12,500.00				
Economic and systematic botany.....	22,200.00	22,200.00				
Dry-land agriculture.....	159,000.00	169,000.00	10,000.00	10,000.00		
Western irrigation agriculture.....	73,580.00	82,380.00	8,800.00	10,000.00		
Nut culture.....	20,000.00	20,000.00				
Pomology.....	63,200.00	68,200.00	5,000.00	5,000.00		
Grape culture.....	20,000.00	20,000.00				
Experimental gardens and grounds.....	11,690.00	11,690.00				
Horticulture.....	73,340.00	101,940.00	28,600.00	30,000.00		
Nursery investigations.....		30,000.00	30,000.00	30,000.00		
Arlington farm.....	21,900.00	25,500.00	3,600.00	5,000.00		
Foreign seed and plant introduction.....	82,700.00	114,200.00	31,500.00	31,500.00		
Erection of buildings and establishment of plant-inspection stations.....	40,000.00				40,000.00	40,000.00
Purchase of land, etc.....	10,000.00				10,000.00	10,000.00
New and rare seeds.....	57,800.00	56,600.00			1,200.00	
Forage crops.....	81,980.00	148,480.00	66,500.00	68,000.00		
Administrative and miscellaneous.....	29,040.00	25,980.00			3,060.00	1,080.00
Purchase and distribution of valuable seeds.....	358,980.00	355,980.00			3,000.00	
Apparent increase, \$227,260; actual increase, \$225,660, as \$1,600 is transferred from demonstrations on reclamation projects.	3,379,638.00	3,606,898.00	393,280.00	363,900.00	166,020.00	138,240.00
<b>FOREST SERVICE.</b>						
Statutory salaries.....	2,485,660.00	812,120.00			1,673,540.00	
General expenses:						
National forests.....	2,069,201.00	4,000,627.00	1,931,426.00	260,406.00		2,520.00
Agricultural land classification and survey of lands.....	107,000.00	107,000.00				
Insect control.....		25,000.00	25,000.00	25,000.00		
Fighting forest fires.....	150,000.00				150,000.00	150,000.00
Equipment and supplies.....	161,100.00	173,600.00	12,500.00	12,500.00		
Forest products.....	173,260.00	348,260.00	175,000.00	175,000.00		
National forest range investigations.....	35,000.00	60,000.00	25,000.00	25,000.00		
National forest planting.....	145,640.00	145,640.00				
Silvical investigations.....	78,728.00	153,728.00	75,000.00	75,000.00		
Reconnaissance.....	80,000.00	125,000.00	45,000.00	45,000.00		
Miscellaneous forest investigations.....	31,280.00	56,920.00	25,640.00	25,640.00		
Improvement of the national forests.....	450,000.00	550,000.00	100,000.00	100,000.00		
A net increase of \$591,026.	5,966,869.00	6,557,895.00	2,414,566.00	743,546.00	1,823,540.00	152,520.00
<b>BUREAU OF CHEMISTRY.</b>						
Statutory salaries.....	411,670.00	428,090.00	16,420.00			900.00
General expenses:						
Agricultural investigations.....	42,400.00	42,400.00				
Collaboration with other departments.....	14,000.00	50,000.00	36,000.00	36,000.00		
American food products.....	4,280.00	4,280.00				
Poultry and egg investigations.....	45,000.00	42,880.00			2,120.00	
Fish, oyster, and other shellfish investigations.....	20,000.00	20,000.00				
Biological investigations.....	15,000.00	25,000.00	10,000.00	10,000.00		





## Comparison of estimates of appropriations for 1921 with appropriations made for 1920—Continued.

Titles of appropriations.	Total of appropriations for 1920.	Total of estimates for 1921.	Apparent increase in estimates for 1921 over act for 1920.	Actual increase in estimates for 1921 over act for 1920.	Apparent decrease in estimates for 1921 below act for 1920.	Actual decrease in estimates for 1921 below act for 1920.
<b>BUREAU OF CHEMISTRY—continued.</b>						
<b>General expenses—Continued.</b>						
Citrus by-products investigations.....	\$13,000.00	\$13,000.00				
Color investigations.....	100,000.00	99,280.00			\$720.00	
Table sirup.....	12,000.00	12,000.00				
Enforcement of the food and drugs act.....	620,221.00	605,081.00			15,140.00	\$2,160.00
Naval stores investigations.....	10,000.00	10,000.00				
Insecticide and fungicide investigations.....	25,000.00	25,000.00				
Drying vegetables, fruits, etc.....	50,000.00	23,500.00			26,500.00	25,000.00
Utilization of wool-scouring waste.....	9,000.00	9,000.00				
Leather and tanning investigations.....		15,000.00	\$15,000.00	\$15,000.00		
A net increase of \$32,940.	1,391,571.00	1,424,511.00	77,420.00	61,000.00	44,480.00	28,060.00
<b>BUREAU OF SOILS.</b>						
Statutory salaries.....	74,160.00	80,860.00	6,700.00	2,800.00		
<b>General expenses:</b>						
Chemical investigations.....	25,610.00	25,610.00				
Physical investigations.....	12,225.00	17,225.00	5,000.00	5,000.00		
Investigations of fertilizer resources.....	31,340.00	50,000.00	18,660.00	18,660.00		
Soil survey investigations.....	198,200.00	231,400.00	33,200.00	35,000.00		
Classification of agricultural lands.....	18,100.00	18,100.00				
Potash investigations.....	127,600.00	192,900.00	65,300.00	67,400.00		
Administrative expenses.....	4,000.00	4,000.00				
A net increase of \$128,860.	491,235.00	620,095.00	128,860.00	128,860.00		
<b>BUREAU OF ENTOMOLOGY.</b>						
Statutory salaries.....	124,010.00	138,190.00	14,180.00	4,580.00		
<b>General expenses:</b>						
Deciduous fruit insects.....	96,180.00	93,900.00			2,280.00	1,080.00
Pecan insect investigations.....	9,600.00	9,600.00				
Cereal and forage insects.....	147,060.00	155,660.00	8,600.00	10,000.00		
European corn borer.....	250,000.00				250,000.00	250,000.00
Southern field crop insects.....	100,400.00	178,400.00	78,000.00	78,000.00		
Forest insects.....	48,790.00	47,590.00			1,200.00	
Truck crop and stored product insects.....	134,960.00	131,760.00			3,200.00	
Bee culture.....	35,000.00	33,800.00			1,200.00	
Tropical and subtropical fruit insects.....	16,500.00	24,500.00	8,000.00	8,000.00		
Mediterranean fruit fly.....	32,000.00	32,000.00				
Camphor thrip.....	5,000.00	5,000.00				
Miscellaneous insects.....	62,330.00	62,330.00				
Administrative and miscellaneous.....	5,480.00	3,880.00			1,600.00	1,600.00
Preventing spread of moths, Bureau of Entomology..	304,050.00	302,650.00			1,400.00	
A net decrease of \$152,100.	1,371,360.00	1,219,260.00	108,780.00	100,580.00	260,880.00	252,680.00
<b>BUREAU OF BIOLOGICAL SURVEY.</b>						
Statutory salaries.....	55,970.00	68,870.00	12,900.00			
<b>General expenses:</b>						
Maintenance of mammal and bird reservations..	32,100.00	37,235.00	5,135.00	5,135.00		
Game for national reservations.....	2,500.00	2,500.00				
Sullys Hill National Park game preserve.....	5,000.00	5,000.00				
Food habits of birds and mammals.....	200,640.00	312,600.00	111,960.00	117,560.00		
Exterminating ground squirrels on national forests and public domain.....	15,000.00	15,000.00				
Destroying noxious animals on national forests and public domain.....	123,800.00	123,800.00				
Suppression of rabies in predatory wild animals..	125,000.00	123,600.00		1,400.00	1,400.00	
Biological investigations.....	24,400.00	24,400.00				
Protection of migratory birds.....	125,000.00	229,500.00	104,500.00	106,000.00		
Game preservation.....	22,000.00	20,500.00		1,500.00	1,500.00	
Administrative expenses.....	10,760.00	15,000.00	4,240.00	4,240.00		
A net increase of \$235,835.	742,170.00	978,005.00	238,735.00	235,835.00	2,900.00	
<b>DIVISION OF ACCOUNTS AND DISBURSEMENTS.</b>						
Statutory salaries.....	44,620.00	50,620.00	6,000.00	6,000.00		
A net increase of \$6,000.						





## Comparison of estimates of appropriations for 1921 with appropriations made for 1920—Continued.

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<b>DIVISION OF PUBLICATIONS.</b>						
Statutory salaries.....	\$196,070.00	\$265,130.00	\$69,060.00	\$69,060.00	.....	.....
General expenses:						
Labor-saving material and machinery.....	5,000.00	6,000.00	1,000.00	1,000.00	.....	.....
Stationery and materials.....	7,500.00	9,000.00	1,500.00	1,500.00	.....	.....
Furniture and fixtures.....	1,320.00	1,600.00	280.00	280.00	.....	.....
Photographic equipment.....	22,000.00	22,000.00	.....	.....	.....	.....
Communication and transportation service.....	750.00	900.00	150.00	150.00	.....	.....
Wagons, horses, etc.....	1,000.00	1,000.00	.....	.....	.....	.....
Miscellaneous expenses.....	4,000.00	4,350.00	350.00	350.00	.....	.....
Agricultural exhibits.....	.....	50,000.00	50,000.00	50,000.00	.....	.....
Emergency employments.....	2,500.00	2,500.00	.....	.....	.....	.....
A net increase of \$122,340.	240,140.00	362,480.00	122,340.00	122,340.00	.....	.....
<b>BUREAU OF CROP ESTIMATES.</b>						
Statutory salaries.....	129,060.00	175,740.00	46,680.00	46,680.00	.....	.....
General expenses:						
Administrative expenses.....	25,480.00	792,042.00	550,000.00	550,000.00	.....	.....
Field investigations.....	216,562.00					
A net increase of \$596,680.	371,102.00	967,782.00	596,680.00	596,680.00	.....	.....
<b>LIBRARY.</b>						
Statutory salaries.....	32,160.00	34,880.00	2,720.00	920.00	.....	.....
General expenses.....	18,000.00	26,200.00	8,200.00	10,000.00	.....	.....
A net increase of \$10,920.	50,160.00	61,080.00	10,920.00	10,920.00	.....	.....
Miscellaneous expenses:						
Operating expenses.....	142,500.00	141,000.00	.....	.....	\$34,500.00	\$34,500.00
Heating plant.....	33,000.00					
A net decrease of \$34,500.	175,500.00	141,000.00	.....	.....	34,500.00	34,500.00
Rent in the District of Columbia.....	100,000.00	150,000.00	50,000.00	8,491.00	.....	.....
Apparent increase, \$50,000; actual increase, \$8,491, as \$41,509 is transferred from the sundry civil bill.						
<b>STATES RELATIONS SERVICE.</b>						
Statutory salaries.....	203,840.00	263,260.00	59,420.00	.....	.....	.....
General expenses:						
Agricultural experiment stations.....	1,440,000.00	1,440,000.00	.....	.....	.....	.....
Colleges and stations.....	69,600.00	71,500.00	1,900.00	10,000.00	.....	.....
Farmers' cooperative demonstrations—North and West.....	751,280.00	715,720.00	.....	.....	35,560.00	1,080.00
Farmers' cooperative demonstrations—South.....	645,040.00	634,800.00	.....	.....	10,240.00	.....
Cooperative agricultural extension work.....	1,500,000.00	1,500,000.00	.....	.....	.....	.....
Farmers' institutes and agricultural schools.....	20,600.00	16,360.00	.....	.....	4,240.00	1,200.00
Agricultural experiment station—Alaska.....	75,000.00	90,000.00	15,000.00	15,000.00	.....	.....
Agricultural experiment station—Hawaii.....	50,000.00	50,000.00	.....	.....	.....	.....
Agricultural experiment station—Porto Rico.....	50,000.00	50,000.00	.....	.....	.....	.....
Agricultural experiment station—Island of Guam.....	25,000.00	20,000.00	.....	.....	5,000.00	5,000.00
Agricultural experiment station—Virgin Islands.....	15,000.00	20,000.00	5,000.00	5,000.00	.....	.....
Home economics.....	46,280.00	74,300.00	28,020.00	30,000.00	.....	.....
General administrative expenses.....	14,180.00	22,600.00	8,420.00	10,000.00	.....	.....
A net increase of \$62,720.	4,905,820.00	4,968,540.00	117,760.00	70,000.00	55,040.00	7,280.00
<b>BUREAU OF PUBLIC ROADS.</b>						
Statutory salaries.....	113,640.00	120,400.00	6,760.00	.....	.....	.....
General expenses:						
Road management.....	38,240.00	36,200.00	.....	.....	2,040.00	1,200.00
Investigating road building and maintenance.....	138,220.00	132,300.00	.....	.....	5,920.00	.....
Road material.....	47,020.00	77,020.00	30,000.00	30,000.00	.....	.....
Field experiments.....	60,000.00	60,000.00	.....	.....	.....	.....
Farm irrigation.....	82,440.00	102,440.00	20,000.00	20,000.00	.....	.....
Farm drainage.....	73,760.00	103,760.00	30,000.00	30,000.00	.....	.....





Titles of appropriations.	Total of appropri- ations for 1920.	Total of estimates for 1921.	Apparent increase in estimates for 1921 over act for 1920.	Actual increase in estimates for 1921 over act for 1920.	Apparent de- crease in esti- mates for 1921 below act for 1920.	Actual decrease in estimates for 1921 below act for 1920.
BUREAU OF PUBLIC ROADS—continued.						
General expenses—Continued.						
Rural engineering.....	\$25,000.00	\$100,000.00	\$75,000.00	\$75,000.00	.....	.....
Administrative expenses.....	16,000.00	16,000.00	.....	.....	.....	.....
A net increase of \$153,800.	594,320.00	748,120.00	161,760.00	155,000.00	\$7,960.00	\$1,200.00
BUREAU OF MARKETS..						
Statutory salaries.....	671,810.00	802,270.00	130,460.00	.....	.....	1,300.00
General expenses:						
Marketing and distributing farm products.....	317,520.00	347,980.00	30,460.00	45,000.00	.....	.....
Collecting and distributing market information..	250,000.00	269,600.00	19,600.00	50,000.00	.....	.....
Stock yards regulation.....	75,000.00	.....	.....	.....	75,000.00	75,000.00
Market reports on live stock and meats.....	105,320.00	139,320.00	34,000.00	50,000.00	.....	.....
Market reports on dairy and poultry products...	80,600.00	69,780.00	.....	.....	10,820.00	.....
Market reports on grain, hay, feeds, and seeds...	50,000.00	44,600.00	.....	.....	5,400.00	.....
Food supply investigations.....	48,800.00	45,620.00	.....	.....	3,180.00	1,080.00
Market reports on peanuts.....	12,000.00	12,000.00	.....	.....	.....	.....
Market inspection of perishable foods.....	150,000.00	191,700.00	41,700.00	50,000.00	.....	.....
Cotton standards investigations.....	18,960.00	18,060.00	.....	.....	900.00	.....
Cotton testing.....	26,960.00	25,860.00	.....	.....	1,100.00	.....
Rural cooperation.....	15,780.00	.....	.....	.....	15,780.00	15,780.00
State cooperation in marketing.....	77,750.00	100,000.00	22,250.00	26,650.00	.....	.....
Grain standardization.....	86,050.00	81,150.00	.....	.....	4,900.00	.....
Enforcement of the standard basket act.....	3,800.00	4,800.00	1,000.00	1,000.00	.....	.....
Administrative expenses.....	20,635.00	20,635.00	.....	.....	.....	.....
Enforcement of the United States cotton-futures act..	131,780.00	198,920.00	67,140.00	72,540.00	.....	.....
Enforcement of the United States grain-standards act.	598,600.00	571,100.00	.....	.....	27,500.00	.....
Administration of the United States warehouse act..	35,000.00	80,000.00	45,000.00	45,000.00	.....	.....
Salaries and expenses, Wool Division.....	35,000.00	.....	.....	.....	35,000.00	35,000.00
A net increase of \$212,030.	2,811,365.00	3,023,395.00	391,610.00	340,190.00	179,580.00	128,160.00
INSECTICIDE AND FUNGICIDE BOARD.						
Statutory salaries.....	29,150.00	30,350.00	1,200.00	.....	.....	.....
General expenses.....	94,790.00	111,560.00	16,770.00	17,970.00	.....	.....
A net increase of \$17,970.	123,940.00	141,910.00	17,970.00	17,970.00	.....	.....
FEDERAL HORTICULTURAL BOARD.						
Statutory salaries.....	31,300.00	41,050.00	9,750.00	.....	.....	.....
General expenses:						
Enforcement of the plant quarantine act.....	47,700.00	145,450.00	97,750.00	100,000.00	.....	.....
Extermination of the potato wart.....	50,000.00	50,000.00	.....	.....	.....	.....
Apparent increase is \$107,500; actual increase, \$100,000, as \$7,500 is transferred from eradi- cation of pink boll worm.	129,000.00	236,500.00	107,500.00	100,000.00	.....	.....
MISCELLANEOUS.						
Demonstrations on reclamation projects.....	48,600.00	47,000.00	.....	.....	1,600.00	.....
Fighting and preventing forest fires.....	.....	1,000,000.00	1,000,000.00	1,000,000.00	.....	.....
Cooperative fire protection of forested watersheds of navigable streams.....	100,000.00	200,000.00	100,000.00	100,000.00	.....	.....
Experiments and demonstrations in live-stock pro- duction in the cane-sugar and cotton districts of the United States.....	60,000.00	60,000.00	.....	.....	.....	.....
Experiments in dairying and live-stock production in semiarid and irrigated districts of the western United States.....	40,000.00	40,000.00	.....	.....	.....	.....
Eradication of foot-and-mouth and other contagious diseases of animals.....	1,000,000.00	1,000,000.00	.....	.....	.....	.....
Eradication of pink bollworm.....	595,800.00	388,560.00	.....	.....	207,240.00	199,740.00
Acquisition of lands for the protection of the water- sheds of navigable streams.....	600,000.00	.....	.....	.....	600,000.00	600,000.00
Agricultural exhibits at fairs.....	100,000.00	.....	.....	.....	100,000.00	100,000.00
Investigation and prevention of plant-dust explo- sions and fires.....	.....	100,000.00	100,000.00	100,000.00	.....	.....
Total agricultural bill.....	33,899,761.00	37,528,102.00	7,214,901.00	5,263,452.00	3,586,560.00	1,676,620.00
Apparent increase, \$3,628,341; actual increase, \$3,586,832, as \$41,509 is transferred from the Sundry Civil bill.	.....	.....	.....	.....	.....	.....



*Comparison of estimates of appropriations for 1921 with appropriations made for 1920—Continued.*

Titles of appropriations.	Total of appropriations for 1920.	Total of estimates for 1921.	Apparent increase in estimates for 1921 over act for 1920.	Actual increase in estimates for 1921 over act for 1920.	Apparent decrease in estimates for 1921 below act for 1920.	Actual decrease in estimates for 1921 below act for 1920.
Permanent annual appropriations.....	\$28,235,000.00	\$35,040,000.00	\$6,805,000.00	\$6,805,000.00	.....	.....
Cooperative construction of rural post roads (Post Office Appropriation act for fiscal year 1920).....	75,000,000.00	75,000,000.00	.....	.....	.....	.....
Federal forest road construction (Post Office Appropriation act for fiscal year 1920).....	3,000,000.00	3,000,000.00	.....	.....	.....	.....
Protection of lands involved in California and Oregon railroad forfeiture suit (Sundry Civil).....	25,000.00	25,000.00	.....	.....	.....	.....
Printing and binding (Sundry Civil).....	600,000.00	725,000.00	125,000.00	125,000.00	.....	.....
Rent of buildings (Sundry Civil).....	41,509.00	.....	.....	.....	41,509.00	.....
Grand total of all appropriations for the Department of Agriculture.....	140,801,270.00	151,318,102.00	14,144,901.00	12,193,452.00	3,628,069.00	1,676,620.00

NOTE.—These estimates represent an increase over appropriations for the fiscal year 1920 of \$3,628,341, but as \$41,509 of the increase for rent in the District of Columbia is transferred from the Sundry Civil Act, and the increase of \$79,720 in the item for the enforcement of the United States Cotton-futures Act merely replaces, in part, certain funds available during the current fiscal year under the Wheat Price Guaranty Act, the net aggregate increase is \$3,507,112. Furthermore, the item of \$1,000,000 for fighting and preventing forest fires (an increase of \$850,000 over the present appropriation), the item of \$1,000,000 for combating the foot-and-mouth disease, and the item of \$240,000 for the eradication of the pink bollworm of cotton are merely insurance funds and will be used only in case of necessity.

It is estimated that the receipts from the various activities of the department, including timber sales, grazing privileges, water-power permits, sales of miscellaneous articles, and the like, will amount during the fiscal year 1921 to approximately \$6,925,000, compared with \$6,885,000 during the current fiscal year.





# ESTIMATES OF APPROPRIATIONS REQUIRED FOR THE SERVICE OF THE FISCAL YEAR ENDING JUNE 30, 1921, BY THE DEPARTMENT OF AGRICULTURE.

General object (title of appropriation), date of acts, references to Statutes at Large or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<b>DEPARTMENT OF AGRICULTURE.</b>		
NOTE.—In the following estimates for the Department of Agriculture new matter appearing in miscellaneous appropriations is indicated by means of <i>italics</i> , and all matter to be dropped is inclosed in heavy brackets, thus <b>[ ]</b> .		
<b>OFFICE OF THE SECRETARY.</b>		
<i>Salaries, Office of the Secretary of Agriculture—</i>		
(1) Secretary of Agriculture ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1</i> )	\$12,000.00	
(2) Two Assistant Secretaries of Agriculture, at \$5,000 each ( <i>same acts</i> )	10,000.00	
(3) Solicitor ( <i>same acts</i> )	5,000.00	
(4) Chief clerk, \$3,000, and \$500 additional as custodian of buildings ( <i>same acts</i> )	3,500.00	
(5) Private secretary to the Secretary of Agriculture ( <i>same acts</i> )	2,500.00	
(6) Executive clerk ( <i>same acts</i> )	2,250.00	
(7) Executive clerk ( <i>same acts</i> )	2,100.00	
(8) Stenographer and executive clerk to the Secretary of Agriculture ( <i>same acts</i> )	2,250.00	
(9) Private secretary to the Assistant Secretary of Agriculture ( <i>same acts</i> )	2,250.00	
(10) One appointment clerk ( <i>same acts</i> )	2,000.00	
(11) <b>[One assistant in charge of information, \$3,000, transferred to statutory roll, Division of Publications.]</b>		
NOTE.—This change, as well as those under items 13, 26, 27, 28, 29, 30, 37 (4 clerks of class 2), 38, (4 clerks of class 1), 44 (2 clerks, at \$1,000 each), 100 (1 laborer at \$600), 102, and 103, involve transfers to the statutory roll of the Division of Publications, in accordance with the plan to consolidate all the publication, informational, and exhibit activities of the department.		
(12) One officer in charge of supplies ( <i>same acts</i> )	2,000.00	
(13) <b>[One assistant, \$2,000, transferred to statutory roll, Division of Publications.]</b>		
(14) One inspector ( <i>same acts</i> )	3,000.00	
(15) One inspector ( <i>same acts</i> )	2,250.00	
(16) One attorney ( <i>same acts</i> )	3,500.00	
(17) Two attorneys, at \$3,250 each ( <i>same acts</i> )	6,500.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(18) Two law clerks, at \$3,000 each ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1</i> ) -----	\$6, 000. 00	
(19) Two law clerks, at \$2,750 each ( <i>same acts</i> ) -----	5, 500. 00	
(20) Four law clerks, at \$2,500 each ( <i>same acts</i> ) -----	10, 000. 00	
(21) Eight law clerks, at \$2,250 each ( <i>same acts</i> ) -----	18, 000. 00	
(22) One law clerk ( <i>same acts</i> ) -----	2, 200. 00	
(23) Five law clerks, at \$2,000 each ( <i>same acts</i> ) -----	10, 000. 00	
(24) Three law clerks, at \$1,800 each ( <i>same acts</i> ) -----	5, 400. 00	
(25) Two law clerks, at \$1,600 each ( <i>same acts</i> ) -----	3, 200. 00	
(26) [One assistant editor, \$2,000, transferred to statutory roll, Division of Publications.]		
(27) [Four assistant editors, at \$1,800 each, transferred to statutory roll, Division of Publications.]		
(28) [One assistant editor, \$1,600, transferred to statutory roll, Division of Publications.]		
(29) [One expert on exhibits, \$3,000, transferred to statutory roll, Division of Publications.]		
(30) [One assistant in exhibits, \$2,000, transferred to statutory roll, Division of Publications.]		
(31) One superintendent of telegraph and telephones (by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> ) -----	2, 000. 00	
(32) One telegraph and telephone operator ( <i>same acts</i> ) -----	1, 600. 00	
(33) One assistant chief clerk and captain of the watch ( <i>same acts</i> ) -	1, 800. 00	
(34) One clerk (in lieu of 1 auditor, \$2,000) ( <i>same acts</i> ) -----	2, 000. 00	
NOTE.—This change in designation is recommended in order to afford greater flexibility in filling the place, when it becomes vacant, with the kind of employee which the special needs of the service demand from time to time.		
(35) Five clerks, class 4 ( <i>same acts</i> ) -----	9, 000. 00	
(36) Fourteen clerks, class 3 ( <i>same acts</i> ) -----	22, 400. 00	
(37) Eighteen clerks, class 2 (decrease of 4 by transfer to statutory roll, Division of Publications, and 1 new place, making a net decrease of 3) ( <i>same acts</i> ) -----	25, 200. 00	
NOTE.—The new place is to provide for the transfer of a clerk now carried on the appropriation for cooperative construction of rural post roads, Bureau of Public Roads. This is a special appropriation covering a period of 5 years and can not be correspondingly reduced. The services of this clerk will be required continuously in the solicitor's office in connection with Federal aid road work		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(38) Twenty-three clerks, class 1 (decrease of 4 by transfer to statutory roll, Division of Publications) ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1</i> ) -----	\$27,600.00	
(39) <b>【One auditor, \$2,000, changed to 1 clerk, \$2,000.】</b>		
NOTE.—See note under item 34.		
(40) One accountant and bookkeeper ( <i>same acts</i> ) -----	2,000.00	
(41) One clerk ( <i>same acts</i> ) -----	1,440.00	
(42) Two clerks, at \$1,100 each ( <i>same acts</i> ) -----	2,200.00	
(43) One clerk ( <i>same acts</i> ) -----	1,020.00	
(44) Five clerks, at \$1,000 each (decrease of 2 by transfer to statutory roll, Division of Publications) ( <i>same acts</i> ) -----	5,000.00	
(45) Eighteen clerks, at \$900 each ( <i>same acts</i> ) -----	16,200.00	
(46) Two clerks, at \$840 each ( <i>same acts</i> ) -----	1,680.00	
(47) Fourteen messengers or laborers, at \$840 each ( <i>same acts</i> ) ----	11,760.00	
(48) Thirteen messengers or laborers, at \$720 each (increase of 1 by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> ) -----	9,360.00	
(49) One messenger or laborer ( <i>same acts</i> ) -----	660.00	
(50) One mechanical superintendent ( <i>same acts</i> ) -----	2,500.00	
(51) One mechanical assistant ( <i>same acts</i> ) -----	1,800.00	
(52) One mechanical assistant ( <i>same acts</i> ) -----	1,400.00	
(53) One mechanical assistant ( <i>same acts</i> ) -----	1,380.00	
(54) One engineer ( <i>same acts</i> ) -----	1,400.00	
(55) One electrical engineer and draftsman ( <i>same acts</i> ) -----	1,200.00	
(56) One chief engineer (by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> ) -----	1,800.00	
(57) Three assistant engineers, at \$1,200 each (increase of 1 by transfer from lump fund for eradicating dourine, Bureau of Animal Industry) ( <i>same acts</i> ) -----	3,600.00	
(58) Two assistant engineers, at \$1,000 each ( <i>same acts</i> ) -----	2,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(59) Ten firemen, at \$1,080 each (by transfer from lump funds, 1 from meat inspection, Bureau of Animal Industry; 1 from black and stripe rust, 1 from blister rust control, and 1 from administrative expenses, Bureau of Plant Industry; 2 from food and drugs act, Bureau of Chemistry; 1 from deciduous fruit insects, Bureau of Entomology; 1 from farmers' cooperative demonstrations in North and West, States Relations Service; 1 from food supply investigations, and 1 from cotton futures act, Bureau of Markets) ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1</i> ) -	\$10,800.00	
(60) One fireman ( <i>same acts</i> ).....	840.00	
(61) Four firemen, at \$720 each (decrease of 4) ( <i>same acts</i> ).....	2,880.00	
NOTE.—It is proposed to drop these four places. They are now vacant and it has been found impossible to fill them because of the low salary.		
(62) One chief elevator conductor ( <i>same acts</i> ).....	840.00	
(63) Sixteen elevator conductors, at \$720 each ( <i>same acts</i> ).....	11,520.00	
(64) Three elevator conductors, at \$600 each ( <i>same acts</i> ).....	1,800.00	
(65) One superintendent of shops ( <i>same acts</i> ).....	1,400.00	
(66) One cabinet shop foreman ( <i>same acts</i> ).....	1,200.00	
(67) Five cabinetmakers or carpenters, at \$1,200 each ( <i>same acts</i> )	6,000.00	
(68) Three cabinetmakers or carpenters, at \$1,100 each ( <i>same acts</i> )..	3,300.00	
(69) Nine cabinetmakers or carpenters, at \$1,020 each ( <i>same acts</i> )..	9,180.00	
(70) Three cabinetmakers or carpenters, at \$900 each ( <i>same acts</i> )..	2,700.00	
(71) One instrument maker ( <i>same acts</i> ).....	1,200.00	
(72) One electrician ( <i>same acts</i> ).....	1,100.00	
(73) Two electrical wiremen, at \$1,100 each ( <i>same acts</i> ).....	2,200.00	
(74) One electrician or wireman ( <i>same acts</i> ).....	1,000.00	
(75) One electrical wireman ( <i>same acts</i> ).....	900.00	
(76) One electrician's helper ( <i>same acts</i> ).....	840.00	
(77) Three electrician's helpers, at \$720 each ( <i>same acts</i> ).....	2,160.00	
(78) One painter ( <i>same acts</i> ).....	1,020.00	
(79) One painter ( <i>same acts</i> ).....	1,000.00	
(80) Five painters, at \$900 each ( <i>same acts</i> ).....	4,500.00	
(81) Five plumbers or steamfitters, at \$1,020 each ( <i>same acts</i> )....	5,100.00	





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(82) Two plumber's helpers, at \$840 each ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1.</i> )—	\$1,680.00	
(83) Two plumber's helpers, at \$720 each ( <i>same acts</i> )—	1,440.00	
(84) One blacksmith ( <i>same acts</i> )—	900.00	
(85) One elevator machinist ( <i>same acts</i> )—	900.00	
(86) One tinner or sheet-metal worker ( <i>same acts</i> )—	1,100.00	
(87) One tinner's helper ( <i>same acts</i> )—	720.00	
(88) One lieutenant of the watch ( <i>same acts</i> )—	1,000.00	
(89) Two lieutenants of the watch, at \$960 each ( <i>same acts</i> )—	1,920.00	
(90) Seventy-three watchmen, at \$720 each ( <i>same acts</i> )—	52,560.00	
(91) Four mechanics, at \$1,200 each ( <i>same acts</i> )—	4,800.00	
(92) One mechanic ( <i>same acts</i> )—	1,000.00	
(93) One foreman of stable (by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> )—	1,080.00	
(94) One skilled laborer ( <i>same acts</i> )—	1,000.00	
(95) Three skilled laborers, at \$960 each (increase of 1 by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> )—	2,880.00	
(96) Two skilled laborers, at \$900 each (increase of 1 by transfer from lump fund for dairy industry, Bureau of Animal Industry) ( <i>same acts</i> )—	1,800.00	
(97) Two skilled laborers, at \$840 each ( <i>same acts</i> )—	1,680.00	
(98) Two skilled laborers, at \$720 each ( <i>same acts</i> )—	1,440.00	
(99) One janitor ( <i>same acts</i> )—	900.00	
(100) Fourteen messengers or laborers, at \$600 each (increase of 1 in lieu of 1 carriage driver, \$600, and decrease of 1 by transfer of 1 laborer, \$600, to statutory roll, Division of Publications, making no change in number of places) ( <i>same acts</i> )—	8,400.00	
NOTE.—The position of carriage driver (item 101) is now vacant. It has not been possible to fill it at the salary provided. The services of an additional laborer are needed, however, and the change in title suggested will permit the use of the place for that purpose.		
(101) [One carriage driver, \$600, changed to 1 messenger or laborer, \$600.]		
NOTE.—See note under item 100.		
(102) Seven messenger boys, at \$600 each (decrease of 1 by transfer to statutory roll, Division of Publications) ( <i>same acts</i> )—	4,200.00	



*Estimates of appropriations required for the service of the fiscal year ending June 31, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(103) Twenty-two messenger boys, at \$480 each (decrease of 2 by transfer to statutory roll, Division of Publications) ( <i>R. S.</i> , p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; July 24, 1919, vol. 41, pp. 235, 236, sec. 1) -----	\$10,560.00	
(104) One messenger boy ( <i>same acts</i> )-----	360.00	
(105) One charwoman ( <i>same acts</i> )-----	540.00	
(106) Three charwomen, at \$480 each ( <i>same acts</i> )-----	1,440.00	
(107) One charwoman ( <i>same acts</i> )-----	360.00	
(108) Sixteen charwomen, at \$240 each (increase of 1 by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> )-----	3,840.00	
(109) For extra labor and emergency employments (decrease of \$7,520) ( <i>same acts</i> )-----	12,480.00	
NOTE.—There is a decrease in this item of \$7,520, due to transfers to the statutory roll of the Office of the Secretary aggregating \$6,800 and the transfer of 3 charwomen at \$240 each, 1 to the statutory roll of the Division of Publications and 2 to the statutory roll of the Bureau of Crop Estimates, aggregating \$720.		
	\$475,860.00	\$500,520.00
Appropriations for 1911..... \$229,870	Estimates for 1912..... \$276,650	
Appropriations for 1912..... 276,450	Estimates for 1913..... 287,300	
Appropriations for 1913..... 292,280	Estimates for 1914..... 305,570	
Appropriations for 1914..... 308,820	Estimates for 1915..... 332,380	
Appropriations for 1915..... 339,880	Estimates for 1916..... 354,280	
Appropriations for 1916..... 352,040	Estimates for 1917..... 402,600	
Appropriations for 1917..... 402,350	Estimates for 1918..... 422,070	
Appropriations for 1918..... 412,010	Estimates for 1919..... 465,120	
Appropriations for 1919..... 462,000	Estimates for 1920..... 491,720	
Appropriations for 1920..... 500,520	Estimates for 1921..... 475,860	
NOTE.—Apparent decrease, \$24,660; actual decrease, \$24,660, as follows:		
<i>Places dropped.</i>		
4 firemen, at \$720 each.....	\$2,880	
<i>Transfers to statutory roll, Division of Publications, and the Secretary's roll correspondingly reduced.</i>		
1 assistant in charge of information.....	\$3,000	
1 assistant.....	2,000	
1 assistant editor.....	2,000	
4 assistant editors, at \$1,800 each.....	7,200	
1 assistant editor.....	1,600	
1 expert on exhibits.....	3,000	
1 assistant in exhibits.....	2,000	
4 clerks, class 2.....	5,600	
4 clerks, class 1.....	4,800	
2 clerks, at \$1,000 each.....	2,000	
1 laborer.....	600	
1 messenger boy.....	600	
2 messenger boys, at \$480 each.....	960	
	35,360	
<i>Transfers from extra labor fund, Office of the Secretary, and that fund correspondingly reduced.</i>		
3 charwomen, at \$240 each, 1 to statutory roll, Division of Publications, and 2 to statutory roll, Bureau of Crop Estimates.....	720	
Reduction in "extra labor" fund on account of transfers to statutory roll, Office of the Secretary.....	6,800	
	\$45,760	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																
<p><i>Salaries, Office of the Secretary of Agriculture—Continued.</i></p> <p style="text-align: center;"><i>New place.</i></p> <p>1 clerk, class 2..... \$1,400</p> <p><i>Transfers from funds of other bureaus, which funds have been correspondingly reduced.</i></p> <p>1 assistant engineer, from eradicating dourine, Bureau of Animal Industry..... \$1,200</p> <p>10 firemen, at \$1,080 each, 1 from meat inspection, Bureau of Animal Industry; 1 from black and stripe rust, 1 from blister rust control, and 1 from administrative expenses, Bureau of Plant Industry; 2 from food and drugs act, Bureau of Chemistry; 1 from deciduous fruit insects, Bureau of Entomology; 1 from farmers' cooperative demonstrations in North and West, States Relations Service; 1 from food supply investigations, and 1 from cotton futures act, Bureau of Markets..... 10,800</p> <p>1 skilled laborer, from dairy industry, Bureau of Animal Industry..... 900</p> <p style="text-align: right;">12,900</p> <p><i>Transfers from lump fund for extra labor to statutory roll, Office of the Secretary, and the lump fund correspondingly reduced.</i></p> <p>1 superintendent of telegraph and telephones... 2,000</p> <p>1 messenger or laborer..... 720</p> <p>1 chief engineer..... 1,800</p> <p>1 foreman of stable..... 1,080</p> <p>1 skilled laborer..... 960</p> <p>1 charwoman..... 240</p> <p style="text-align: right;">6,800</p> <p style="text-align: right;">\$21,100</p> <p>Actual decrease..... 24,660</p> <p style="text-align: center;"><i>Change of title.</i></p> <p>1 carriage driver, \$600, changed to 1 messenger or laborer, \$600.</p> <p>1 auditor, \$2,000, changed to 1 clerk, \$2,000.</p>																																																																																		
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Superintendent of telegraph and telephones.....per annum..</td><td>\$2,000.00</td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Assistant in exhibits.....do.....</td><td>2,000.00</td><td>.....</td><td>1</td></tr><tr><td>Mechanical assistant.....do.....</td><td>1,400.00</td><td>.....</td><td>1</td></tr><tr><td>Assistant engineer.....do.....</td><td>1,200.00</td><td>.....</td><td>1 (temp.)</td></tr><tr><td>Electrical wireman.....do.....</td><td>1,100.00</td><td>.....</td><td>1 (temp.)</td></tr><tr><td>Stable foreman.....do.....</td><td>1,080.00</td><td>.....</td><td>1</td></tr><tr><td>Chauffeur.....do.....</td><td>960.00</td><td>.....</td><td>1</td></tr><tr><td>Clerk, watchmen, and charwomen, \$900 to \$240.....do..</td><td>.....</td><td>75 (temp.)</td><td>77 (temp.)</td></tr><tr><td>Relief watchmen (average service 22 days each).....per diem..</td><td>2.00</td><td>50 (temp.)</td><td>55 (temp.)</td></tr><tr><td>Collaborators.....per month..</td><td>1.00</td><td>2 (temp.)</td><td>2 (temp.)</td></tr><tr><td colspan="4"><i>Wages:</i></td></tr><tr><td>Steamfitters, electricians, firemen, electricians' helpers, \$5.25 to \$3.....per diem..</td><td>.....</td><td>25 (temp.)</td><td>14 (temp.)</td></tr><tr><td>Consulting engineer.....do.....</td><td>10.00</td><td>.....</td><td>1 (temp.)</td></tr><tr><td>Miscellaneous temporary labor, \$60 to \$25.....per month..</td><td>.....</td><td>10 (temp.)</td><td>8 (temp.)</td></tr><tr><td></td><td></td><td>162</td><td>164</td></tr><tr><td>Salaries.....</td><td></td><td>\$7,000.00</td><td>\$8,840.73</td></tr><tr><td>Wages.....</td><td></td><td>5,480.00</td><td>2,663.93</td></tr><tr><td>Total.....</td><td></td><td>12,480.00</td><td>11,504.66</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	<i>Salaries:</i>				Superintendent of telegraph and telephones.....per annum..	\$2,000.00	<i>Number.</i>	<i>Number.</i>	Assistant in exhibits.....do.....	2,000.00	.....	1	Mechanical assistant.....do.....	1,400.00	.....	1	Assistant engineer.....do.....	1,200.00	.....	1 (temp.)	Electrical wireman.....do.....	1,100.00	.....	1 (temp.)	Stable foreman.....do.....	1,080.00	.....	1	Chauffeur.....do.....	960.00	.....	1	Clerk, watchmen, and charwomen, \$900 to \$240.....do..	.....	75 (temp.)	77 (temp.)	Relief watchmen (average service 22 days each).....per diem..	2.00	50 (temp.)	55 (temp.)	Collaborators.....per month..	1.00	2 (temp.)	2 (temp.)	<i>Wages:</i>				Steamfitters, electricians, firemen, electricians' helpers, \$5.25 to \$3.....per diem..	.....	25 (temp.)	14 (temp.)	Consulting engineer.....do.....	10.00	.....	1 (temp.)	Miscellaneous temporary labor, \$60 to \$25.....per month..	.....	10 (temp.)	8 (temp.)			162	164	Salaries.....		\$7,000.00	\$8,840.73	Wages.....		5,480.00	2,663.93	Total.....		12,480.00	11,504.66		
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Total for Office of the Secretary of Agriculture.....	\$475,860.00	\$500,520.00																																																																																



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<b>【OFFICE】 BUREAU OF FARM MANAGEMENT AND FARM ECONOMICS.</b>		
<p>NOTE.—A revised estimate of appropriations, aggregating \$611,990, for the work of the Office of Farm Management during the fiscal year 1920 was transmitted to the Congress on May 26 and was printed in House Document No. 57. This estimate was based upon the report of a committee composed of recognized authorities on farm management and agricultural economics which, at the request of the Secretary of Agriculture, made a thorough study of the activities of the Office of Farm Management with a view to enlarge the scope and increase the efficiency of the work and to outline definite methods of procedure to be followed in the study of farm management problems, and especially the cost of producing agricultural products. With the exception of the increase in the compensation of the chief of the office, the Congress did not adopt the department's recommendations, but there was included in the bill a proviso which, in effect, limits the amount that may be expended in ascertaining the cost of production of the principal agricultural products to \$23,873. It is impossible, in the circumstances, for the department to conduct during the present fiscal year studies of the cost of producing agricultural products on the scale contemplated by the reorganization committee or to carry out in an adequate way the remainder of the enlarged program.</p> <p>In these estimates the department renews the suggestions made in House Document No. 57, and it is earnestly hoped that the Congress will give them favorable consideration. It is proposed to detach the Office of Farm Management from the Office of the Secretary and to change its name to "Bureau of Farm Management and Farm Economics." Certain readjustments also have been made in the statutory roll and the language of the lump fund item has been changed so as specifically to enumerate the various lines of work.</p>		
<i>Salaries, 【Office】 Bureau of Farm Management and Farm Economics—</i>		
(1) One chief of 【office】 bureau ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 4, 1915</i> , vol. 38, p. 1087, sec. 1; <i>July 24, 1919</i> , vol. 41, p. 236, sec. 1) .....	\$5,000.00	
NOTE.—The change in title of the chief of office is made necessary by the change in the name of the office.		
(2) One assistant to the chief ( <i>same acts</i> ) .....	2,520.00	
(3) One executive assistant ( <i>same acts</i> ) .....	2,250.00	
(4) Two clerks, class 4 ( <i>same acts</i> ) .....	3,600.00	
(5) Five clerks, class 3 (increase of 3, 2 by transfer from lump fund for general expenses, Office of Farm Management, and 1 new place) ( <i>same acts</i> ) .....	8,000.00	
NOTE.—This new place, as well as those under items, 6, 7, 8, 9, 24 and 25, are recommended in order to properly provide for the work contemplated under the revised and enlarged projects of the bureau.		
(6) Five clerks, class 2 (increase of 2, 1 by transfer from statutory roll, Bureau of Markets, and 1 new place) ( <i>same acts</i> ) .....	7,000.00	
NOTE.—See note under item 5.		
(7) Nineteen clerks, class 1 (increase of 11, 4 by transfer from lump fund for general expenses, Office of Farm Management, 2 by transfer from statutory roll, Bureau of Markets, and 5 new places) ( <i>same acts</i> ) .....	22,800.00	
NOTE.—See note under item 5.		
(8) Four clerks, at \$1,100 each (increase of 1) ( <i>same acts</i> ) .....	4,400.00	
NOTE.—See note under item 5.		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, [Office] Bureau of Farm Management and Farm Economics—Continued.</i>		
(9) Ten clerks, at \$1,080 each (increase of 6) ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) .....	\$10,800.00	
NOTE.—See note under item 5.		
(10) One clerk or draftsman ( <i>same acts</i> ) .....	1,020.00	
(11) Ten clerks, at \$1,000 each ( <i>same acts</i> ) .....	10,000.00	
(12) Nine clerks, at \$900 each (decrease of 9) ( <i>same acts</i> ) .....	8,100.00	
NOTE.—These places, as well as those under item 13 (5 clerks or map tracers), are either vacant or are filled by temporary employees, as competent clerks and draftsmen can not be obtained at such small salaries. It is therefore proposed to drop the positions.		
(13) One clerk or map tracer (decrease of 5) ( <i>same acts</i> ) .....	840.00	
NOTE.—See note under item 12.		
(14) One messenger or laborer ( <i>same acts</i> ) .....	720.00	
(15) One messenger boy ( <i>same acts</i> ) .....	660.00	
(16) Three messenger boys, at \$480 each ( <i>same acts</i> ) .....	1,440.00	
(17) One charwoman ( <i>same acts</i> ) .....	480.00	
(18) Five charwomen, at \$240 each ( <i>same acts</i> ) .....	1,200.00	
(19) One library assistant ( <i>same acts</i> ) .....	1,440.00	
(20) One library assistant ( <i>same acts</i> ) .....	900.00	
(21) One photographer ( <i>same acts</i> ) .....	1,400.00	
(22) One cartographer ( <i>same acts</i> ) .....	1,500.00	
(23) [One draftsman, \$1,440, changed to 1 clerk or draftsman, \$1,440.]		
NOTE.—See note under item 24.		
(24) Three clerks or draftsmen, at \$1,440 each (1 in lieu of 1 draftsman, \$1,440, and 2 new places) ( <i>same acts</i> ) .....	4,320.00	
NOTE.—The change in title of 1 draftsman at \$1,440 to clerk or draftsman at \$1,440 is suggested merely in order to effect a consolidation of the three places at the same salary. See note under item 5 as to new places.		
(25) One draftsman ( <i>submitted</i> ) .....	1,250.00	
NOTE.—See note under item 5.		
(26) One draftsman ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) .....	1,200.00	
(27) One draftsman (by transfer from lump fund for general expenses, Office of Farm Management) ( <i>same acts</i> ) .....	1,100.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<b>Salaries, [Office] Bureau of Farm Management and Farm Economics—</b> Continued.		
(28) Two draftsmen, at \$900 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) -----	\$1, 800. 00	
Appropriations for 1916..... \$36, 080	Estimates for 1916..... \$36, 080	
Appropriations for 1917..... 60, 810	Estimates for 1917..... 60, 850	
Appropriations for 1918..... 68, 430	Estimates for 1918..... 68, 430	
Appropriations for 1919..... 83, 430	Estimates for 1919..... 83, 430	
Appropriations for 1920..... 84, 430	Estimates for 1920..... 86, 930	
	Estimates for 1921..... 105, 740	
NOTE.—Apparent increase, \$21,310; actual increase, \$12,210, as follows:		
<i>New places.</i>		
1 clerk, class 3.....	\$1, 600	
1 clerk, class 2.....	1, 400	
5 clerks, class 1.....	6, 000	
1 clerk.....	1, 100	
6 clerks, at \$1,080 each.....	6, 480	
2 clerks or draftsmen, at \$1,440 each.....	2, 880	
1 draftsman.....	1, 250	
	-----\$20, 710	
<i>Transfers from statutory roll, Bureau of Markets.</i>		
1 clerk, class 2.....	1, 400	
2 clerks, class 1.....	2, 400	
	-----3, 800	
	-----\$24, 510	
<i>Places dropped.</i>		
9 clerks, at \$900 each.....	8, 100	
5 clerks or map tracers, at \$840 each.....	4, 200	
	-----12, 300	
Actual increase.....	12, 210	
<i>Transfers from lump fund of this bureau, which fund had been correspondingly reduced.</i>		
2 clerks, class 3.....	3, 200	
4 clerks, class 1.....	4, 800	
1 draftsman.....	1, 100	
	-----9, 100	
Apparent increase.....	21, 310	
<i>Change of title.</i>		
1 chief of office, \$5,000, changed to 1 chief of bureau, \$5,000.		
1 draftsman, \$1,440, changed to 1 clerk or draftsman, \$1,440.		
<b>General Expenses, [Office] Bureau of Farm Management and Farm Economics—</b>		
(29) For the employment of persons in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and all other expenses necessary in carrying out the work herein authorized, as follows ( <i>acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; July 24, 1919, vol. 41, p. 236, sec. 1</i> ):		
(30) [To investigate and encourage the adoption of improved methods of farm management and farm practice, \$218,160: <i>Provided</i> , That of this amount \$23,873 may be used in ascertaining the cost of production of the principal staple agricultural products.]		
	\$105, 740. 00	\$84, 430. 00





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																						
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p> <p>(31) <i>To investigate the cost of production of farm products; to study economic problems connected with farm financial relations, farm labor, land utilization, ownership and tenancy, and rural-life conditions; to compile and publish the Atlas of American Agriculture; and to encourage improved farm organization and farm management methods (submitted) -----</i></p> <table><tr><td>Appropriation for 1916.....</td><td>\$235,000</td><td>Estimate for 1916.....</td><td>\$245,000</td></tr><tr><td>Appropriation for 1917.....</td><td>225,000</td><td>Estimate for 1917.....</td><td>235,000</td></tr><tr><td>Appropriation for 1918.....</td><td>237,380</td><td>Estimate for 1918.....</td><td>267,380</td></tr><tr><td>Appropriation for 1919.....</td><td>221,660</td><td>Estimate for 1919.....</td><td>221,660</td></tr><tr><td>Appropriation for 1920.....</td><td>218,160</td><td>Estimate for 1920.....</td><td>218,160</td></tr><tr><td></td><td></td><td>Estimate for 1921.....</td><td>506,250</td></tr></table> <p>NOTE.—There is an apparent increase in this item of \$288,090, but taking into consideration the transfers to the statutory roll, aggregating \$9,100, the actual increase is \$297,190. Since the lump-fund item in the Bureau of Markets of \$15,780 for rural cooperation has been eliminated and provision made for continuing this work under the lump fund for farm management, the actual net increase for farm management studies is only \$281,410. It is proposed to apportion the appropriation among the following projects in the amounts indicated:</p> <table><tr><td>Cost of production of farm products.....</td><td>\$243,090</td></tr><tr><td>Farm organization.....</td><td>52,000</td></tr><tr><td>Farm financial relations.....</td><td>20,360</td></tr><tr><td>Agricultural history and geography.....</td><td>28,100</td></tr><tr><td>Land economics.....</td><td>110,520</td></tr><tr><td>Farm life studies.....</td><td>19,360</td></tr><tr><td>Demonstration activities.....</td><td>32,820</td></tr></table> <p>The plan for the reorganization and development of the work in the field of farm management and farm economics, as well as the need for additional funds, was fully set out in House Document No. 57 as follows:</p> <p>DEPARTMENT OF AGRICULTURE, OFFICE OF THE SECRETARY, Washington, May 23, 1919.</p> <p><i>The Secretary of the Treasury.</i></p> <p>SIR: I have the honor to transmit herewith a revised estimate of an appropriation for the work of the Bureau of Farm Management and Farm Economics (Office of Farm Management) during the fiscal year 1920 in lieu of the original estimate, which appears on pages 183 and 184 of the Book of Estimates.</p> <p>As stated before the House Committee on Agriculture on January 6, 1919, the Office of Farm Management at that time was undergoing a process of reorganization. At my request a committee composed of recognized authorities on farm management and agricultural economic subjects made a thorough study of the activities of the office with a view to enlarge the scope and increase the efficiency of the work and to outline definite methods of procedure to be followed in the study of farm-management problems, and especially the cost of producing agricultural products. The members of the committee were:</p> <p>Prof. G. F. Warren, professor of farm management, State College of Agriculture, Ithaca, N. Y.</p> <p>Prof. Andrew Boss, chief division of agronomy and farm management, State College of Agriculture, University Farm, St. Paul, Minn.</p> <p>Dr. H. C. Taylor, head department of agricultural economics, State College of Agriculture, Madison, Wis.</p> <p>Prof. J. A. Foord, professor of farm management, State College of Agriculture, Amherst, Mass.</p> <p>Dr. J. I. Falconer, professor of rural economics, State College of Agriculture, Columbus, Ohio.</p> <p>Prof. R. L. Adams, professor of agronomy, State College of Agriculture, Berkeley, Calif.</p> <p>Mr. G. I. Christie, Assistant Secretary of Agriculture.</p>	Appropriation for 1916.....	\$235,000	Estimate for 1916.....	\$245,000	Appropriation for 1917.....	225,000	Estimate for 1917.....	235,000	Appropriation for 1918.....	237,380	Estimate for 1918.....	267,380	Appropriation for 1919.....	221,660	Estimate for 1919.....	221,660	Appropriation for 1920.....	218,160	Estimate for 1920.....	218,160			Estimate for 1921.....	506,250	Cost of production of farm products.....	\$243,090	Farm organization.....	52,000	Farm financial relations.....	20,360	Agricultural history and geography.....	28,100	Land economics.....	110,520	Farm life studies.....	19,360	Demonstration activities.....	32,820	\$506, 250. 00	\$218, 160. 00
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p> <p>On February 26, this committee submitted a report to me, which I cordially approved and which has been published as Circular No. 132 of the office of the Secretary. A copy of this report is attached hereto. The recommendation made therein will result, I am sure, in placing the activities of the department in this difficult field on a broader and more satisfactory basis. It is impossible, however, with existing funds adequately to conduct the work on the enlarged scale suggested by the committee. After very careful consideration I am convinced that the sum named in the estimate will be required during the next fiscal year to effectively prosecute the work, the results of which will be increasingly in demand, and will be especially helpful to the farmers in shaping their plans and to the Nation in considering important agricultural problems of many sorts. I hope that the full amount will be made available.</p> <p>The recommendations of the committee may be summarized as follows:</p> <ol style="list-style-type: none"> <li>1. CHANGE THE NAME OF THE OFFICE OF FARM MANAGEMENT TO BUREAU OF FARM MANAGEMENT AND FARM ECONOMICS.</li> </ol> <p>In recognition of the work already accomplished in farm economics along with the investigational work in farm management, and in view of the great need for still further economic studies of the farming business, the committee recommends that the office be expanded to include both both farm management and farm economics under the name of "Bureau of Farm Management and Farm Economics."</p> <ol style="list-style-type: none"> <li>2. COOPERATION WITH STATE AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.</li> </ol> <p>It is recommended that the investigations of the Office of Farm Management requiring field work be carried on in cooperation with the State colleges and experiment stations. Some of the benefits of such cooperation would be—</p> <ol style="list-style-type: none"> <li>(1) To prevent duplication and to correlate activities.</li> <li>(2) To promote the development of State departments.</li> <li>(3) To unify the methods and improve the general character of all farm management work.</li> </ol> <ol style="list-style-type: none"> <li>3. OUTLINE OF THE PROJECTS OF THE PROPOSED BUREAU.</li> </ol> <p style="text-align: center;">ADMINISTRATION.</p> <ol style="list-style-type: none"> <li>A. Business office.</li> <li>B. Research work: <ol style="list-style-type: none"> <li>1. Cost of production.</li> <li>2. Farm organization.</li> <li>3. Farm finance and farm relations.</li> <li>4. Farm labor.</li> <li>5. Agricultural history and geography.</li> <li>6. Land utilization (including land ownership and tenancy).</li> <li>7. Farm-life studies.</li> </ol> </li> <li>C. Extension work.</li> </ol> <p>Using these recommendations as a basis for the development of the activities of the bureau, separate conferences have been held for the purpose of outlining in greater detail the work proposed by the committee, and especially to consider the following projects:</p> <p>Cost of production. Farm organization. Land utilization. Farm-life studies.</p> <p>These conferences were attended by the leading authorities of the country on the subjects under discussion; and as the work develops it is expected that further conferences will be called for the consideration of other lines of activity suggested by the committee. Copies of the reports submitted to me as a result of these conferences are attached hereto.</p> <p>Work under a number of the projects is now actively under way and preparations are being made for the taking up of new lines of work as promptly as possible. The projects may be briefly outlined as follows:</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p>		
<p>COST OF PRODUCTION STUDIES.</p>		
<p>The value and importance of cost of production studies are set forth very clearly in the report of the reorganization committee in the following language:</p>		
<p>Cost of production studies are of value to the individual farmer and, at the same time, are helpful in ascertaining the economic status of farming as an industry.</p>		
<p>From the standpoint of the individual farmer the primary purposes are:</p>		
<p>(1) To record the details of the farm business for reference.</p>		
<p>(2) To give an insight into the elements and interrelations of the different farm activities.</p>		
<p>(3) To furnish information that may enable the farmer to reduce costs or otherwise increase profits.</p>		
<p>(4) To make possible a comparison of the profitableness of the different enterprises and combinations of enterprises.</p>		
<p>The records secured by cost of production studies give data for analyzing the farm business, and thus are of fundamental importance in the whole program of agricultural research and education. The results of such studies on a number of farms where a given type of farming is practiced are useful not only to the farmers from whose farms the results were obtained, but are of value in showing other farmers how to improve their methods.</p>		
<p>From the standpoint of the public, cost of production studies provide the facts which give a basis for intelligent judgment upon the probable effects of any given legislation or other public activity upon the farmer as a producer and as a citizen. Cost of production studies are therefore one of the means of providing the basic facts needed by legislators and price commissions in comparing the profits of competing lines of production and estimating necessary price.</p>		
<p>The cost of production work, as outlined, has been placed under the supervision of Mr. F. W. Peck, formerly in charge of cost of production work at the University of Minnesota.</p>		
<p>FARM ORGANIZATION.</p>		
<p>The purpose of the investigations relating to farm organization is to develop the economic principles which underlie the management of a farm with a view to secure a maximum profit through a long series of years. The principal topics to be considered are:</p>		
<p>I. Types of farming:</p>		
<p>(a) Determination of enterprises.</p>		
<p>(b) Balance or combination of enterprises.</p>		
<p>II. Size of business (farm unit).</p>		
<p>III. Farm plan or layout.</p>		
<p>IV. Effective use of labor and equipment.</p>		
<p>V. Intensity of production.</p>		
<p>VI. Business methods.</p>		
<p>FARM FINANCE AND FARM RELATIONS.</p>		
<p>This project deals with credit, insurance, and taxation from the standpoint of their influence upon the activities of the farmer.</p>		
<p>FARM LABOR STUDIES.</p>		
<p>Under this project, attention will be given to such matters as trend of population, supply, and movement of farm labor, as well as living and housing problems connected with the hired man. The subject of standards of supervision and compensation of farm labor also will be studied.</p>		
<p>AGRICULTURAL HISTORY-AND GEOGRAPHY.</p>		
<p>This project involves a study of the trend of agricultural development, the relations of climate, soil, and other geographic conditions to farm enterprises, farm operations, and types of farming. The work under it consists primarily of the preparation of the Atlas of American Agriculture.</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p>		
<p>LAND ECONOMICS (LAND UTILIZATION).</p>		
<p>The land problems which confront both farmer and the State and Federal Governments are becoming more acute from year to year. A special committee called to consider and make recommendations regarding subjects to be studied in this field indicated the following principal topics for special consideration:</p> <ol style="list-style-type: none"> <li>1. Land resources.</li> <li>2. Land values.</li> <li>3. Land ownership and tenancy.</li> <li>4. Land settlement and colonization.</li> <li>5. Land policies.</li> </ol> <p>Dr. L. C. Gray, of Peabody College, who has given particular attention to land and tenancy problems for many years, has been placed in charge of this line of work.</p>		
<p>FARM-LIFE STUDIES.</p>		
<p>Farm-life studies are to be conducted with a view to make living conditions in the home and in the community more satisfactory to the farm family. To this end it was proposed by the conference on farm-life studies that information be secured concerning the following topics:</p> <ol style="list-style-type: none"> <li>1. Rural home life.</li> <li>2. Opportunities for social contacts in typical rural communities.</li> <li>3. The relation of educational and religious institutions to farm-life problems.</li> <li>4. Problems relating to geographical population groups, such as the relation of urban and rural populations, the shifting of rural populations, race elements in rural population.</li> <li>5. Social aspects of tenancy and landlordism.</li> <li>6. Rural organizations, their efficiency, scope, causes of success and failure.</li> <li>7. Social aspects of various types of farm labor—the married and unmarried farm hand, seasonal labor, child labor.</li> <li>8. The relation of various forms of disability—the aged, illiterate, defective, dependent, delinquent—the farm-life problems.</li> <li>9. The social consequences of local disasters due to natural causes.</li> <li>10. The social consequences of thrift and agencies for promoting thrift.</li> </ol> <p>Prof. C. J. Galpin, of the University of Wisconsin, has been appointed to take charge of these investigations.</p>		
<p>DEMONSTRATION ACTIVITIES (EXTENSION WORK).</p>		
<p>The end in view in research work in farm management and farm economics is "better farming, better business, and better living." In order that this result may be secured, it is essential that the results be carried to the farmer on his own farm. Publication alone is not adequate, and the committee suggested that a few men in the Bureau of Farm Management should devote their energies to planning methods of disseminating to the farmers the conclusions of research through the States Relations Service.</p> <p>The task of carrying out this program has been assigned to Dr. H. C. Taylor, who has been appointed Chief of the Office of Farm Management. Dr. Taylor, before accepting this position, owned and operated a farm in Wisconsin, and also was head of the department of agricultural economics in the department of agriculture, University of Wisconsin. He stands as one of the leaders among those dealing with problems of rural economics and farm management. As indicated, the department has also secured the services of Mr. Francis W. Peck, of the University of Minnesota, who has had wide experience in the studies of cost of producing farm products, to take charge, under Dr. Taylor's direction, of the enlarged activities in this important field; of Dr. L. C. Gray, of Peabody College, to direct the work relating to land economics; and of Prof. C. J. Galpin, of the University of Wisconsin, to supervise the farm-life studies which the reorganized office will undertake. This is in accordance with and a part of the plan to secure some of the best available minds in the country to direct the work relating to farm management and farm economics, and particularly the studies of the cost of production.</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																																																																																																																																																												
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p> <p>Having secured such experts as these to direct the principal activities, I am confident that the work proposed will be executed in a highly satisfactory way and that facts and information of immense value to individual farmers in dealing with their own problems, and also to the Nation for its guidance in considering broad agricultural policies, will be secured and made available. I, therefore, earnestly hope that the program will be accepted as outlined and that the appropriations asked for will be provided at the earliest possible moment.</p> <p>Respectfully,</p> <p>D. F. HOUSTON, <i>Secretary.</i></p> <p>It is proposed to amend the language of this paragraph so as to indicate more accurately the various activities contemplated under the plan of reorganization.</p> <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Farm economists in charge...per annum...</td><td>\$4,250.00</td><td>2 (1 new)</td><td>1</td></tr><tr><td>Farm economists.....do.....</td><td>3,250.00</td><td>2</td><td>2 (pt. time)</td></tr><tr><td>Farm economists.....do.....</td><td>3,000.00</td><td>5 (1 new)</td><td>4</td></tr><tr><td>Assistant farm economists.....do.....</td><td>2,760.00</td><td>3</td><td>3</td></tr><tr><td>Assistant farm economist.....do.....</td><td>2,640.00</td><td>1</td><td>1</td></tr><tr><td>Assistant farm economists.....do.....</td><td>2,520.00</td><td>4</td><td>4</td></tr><tr><td>Assistant farm 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\$16,300).do.....</td><td></td><td>15</td><td>2</td></tr><tr><td>Agents, charwomen, clerks, collaborators, field assistants, messengers, and watchmen, \$900 to \$1.....do.....</td><td></td><td>..</td><td>21 (20 temp.)</td></tr></table>	Employees.	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Scientific assistant.....do.....	1,440.00	1	1																																																																																																																																																																																																																																																											
Assistant in farm equipment.....do.....	1,200.00	1	1																																																																																																																																																																																																																																																											
Agent.....do.....	2,520.00	1 (new)	..																																																																																																																																																																																																																																																											
Agents.....do.....	2,280.00	4 (2 new)	2																																																																																																																																																																																																																																																											
Agents.....do.....	2,040.00	2	2																																																																																																																																																																																																																																																											
Agent.....do.....	2,000.00	1	1																																																																																																																																																																																																																																																											
Agent.....do.....	1,600.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Agent.....do.....	1,200.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Head draftsman.....do.....	2,040.00	1 (new)	..																																																																																																																																																																																																																																																											
Draftsman.....do.....	1,800.00	..	1																																																																																																																																																																																																																																																											
Draftsman.....do.....	1,100.00	..	1																																																																																																																																																																																																																																																											
Photographer.....do.....	1,200.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Photographer.....do.....	1,100.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Clerk.....do.....	1,800.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Clerks.....do.....	1,600.00	..	2 (1 part time; 1 temp.)																																																																																																																																																																																																																																																											
Clerks.....do.....	1,400.00	..	2 (1 temp.)																																																																																																																																																																																																																																																											
Clerks.....do.....	1,200.00	..	10 (3 part time.)																																																																																																																																																																																																																																																											
Clerks.....do.....	1,100.00	..	3 (1 temp.)																																																																																																																																																																																																																																																											
Clerk.....do.....	1,080.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Clerk.....do.....	1,020.00	..	1 (temp.)																																																																																																																																																																																																																																																											
Other assistants (estimated, \$16,300).do.....		15	2																																																																																																																																																																																																																																																											
Agents, charwomen, clerks, collaborators, field assistants, messengers, and watchmen, \$900 to \$1.....do.....		..	21 (20 temp.)																																																																																																																																																																																																																																																											





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																								
<p><i>General Expenses, [Office] Bureau of Farm Management and Farm Economics—Continued.</i></p> <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Wages:</td><td></td><td>Number.</td><td>Number.</td></tr><tr><td>Painter.....per diem..</td><td>\$5. 25</td><td>.....</td><td>1 (temp.)</td></tr><tr><td>Laborers.....do.....</td><td>\$4 to \$3</td><td>.....</td><td>3 (temp.)</td></tr><tr><td></td><td></td><td>119</td><td>132</td></tr><tr><td>Salaries.....</td><td></td><td>\$267,830.00</td><td>\$143,181.91</td></tr><tr><td>Wages.....</td><td></td><td></td><td>1,401.00</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Stationery.....</td><td></td><td></td><td>1,544.10</td></tr><tr><td>Traveling expenses.....</td><td></td><td>54,000.00</td><td>38,278.05</td></tr><tr><td>Equipment and material.....</td><td></td><td>13,350.00</td><td>1,522.12</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>5,670.00</td><td>1,930.70</td></tr><tr><td>Cooperative work with agricultural colleges and experiment stations.....</td><td></td><td>165,400.00</td><td>.....</td></tr><tr><td>Total.....</td><td></td><td>506,250.00</td><td>187,857.88</td></tr></table> <p><i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i></p> <p>GENERAL EXPENSES, OFFICE OF FARM MANAGEMENT.</p> <p>1 clerk, \$1,800 per annum. 9 clerks, at \$1,200 each per annum. 3 clerks, at \$1,100 each per annum. 1 clerk, \$1,080 per annum. 1 clerk, \$1,020 per annum. 10 clerks, at \$900 each per annum.</p>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Wages:		Number.	Number.	Painter.....per diem..	\$5. 25	.....	1 (temp.)	Laborers.....do.....	\$4 to \$3	.....	3 (temp.)			119	132	Salaries.....		\$267,830.00	\$143,181.91	Wages.....			1,401.00	Other objects of expenditure:				Stationery.....			1,544.10	Traveling expenses.....		54,000.00	38,278.05	Equipment and material.....		13,350.00	1,522.12	Miscellaneous items.....		5,670.00	1,930.70	Cooperative work with agricultural colleges and experiment stations.....		165,400.00	.....	Total.....		506,250.00	187,857.88		
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																							
Wages:		Number.	Number.																																																							
Painter.....per diem..	\$5. 25	.....	1 (temp.)																																																							
Laborers.....do.....	\$4 to \$3	.....	3 (temp.)																																																							
		119	132																																																							
Salaries.....		\$267,830.00	\$143,181.91																																																							
Wages.....			1,401.00																																																							
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Stationery.....			1,544.10																																																							
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Cooperative work with agricultural colleges and experiment stations.....		165,400.00	.....																																																							
Total.....		506,250.00	187,857.88																																																							
Total for Bureau of Farm Management and Farm Economics.....	\$611,990.00	\$302,590.00																																																								



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p style="text-align: center;">WEATHER BUREAU.</p> <p><i>Salaries, Weather Bureau—</i></p>		
(1) One chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) .....	\$5,000.00	
(2) One assistant chief of bureau ( <i>same acts</i> ) .....	3,250.00	
(3) One chief clerk ( <i>same acts</i> ) .....	2,500.00	
(4) One chief of division of stations and accounts ( <i>same acts</i> ) .....	2,750.00	
(5) One chief of printing division ( <i>same acts</i> ) .....	2,500.00	
(6) Three chiefs of division, at \$2,000 each ( <i>same acts</i> ) .....	6,000.00	
(7) Eight clerks, class 4 ( <i>same acts</i> ) .....	14,400.00	
(8) Eleven clerks, class 3 ( <i>same acts</i> ) .....	17,600.00	
(9) Twenty-three clerks, class 2 ( <i>same acts</i> ) .....	32,200.00	
(10) Thirty-three clerks, class 1 (increase of 2 by transfer from lump fund for aerological stations) ( <i>same acts</i> ) .....	39,600.00	
(11) Twenty-six clerks, at \$1,000 each ( <i>same acts</i> ) .....	26,000.00	
(12) Ten clerks, at \$900 each ( <i>same acts</i> ) .....	9,000.00	
(13) One forman of printing ( <i>same acts</i> ) .....	1,600.00	
(14) One lithographer ( <i>same acts</i> ) .....	1,500.00	
(15) Three lithographers, at \$1,200 each ( <i>same acts</i> ) .....	3,600.00	
(16) One pressman ( <i>same acts</i> ) .....	1,200.00	
(17) One printer or compositor ( <i>same acts</i> ) .....	1,440.00	
(18) Five printers or compositors, at \$1,350 each ( <i>same acts</i> ) .....	6,750.00	
(19) Fourteen printers or compositors, at \$1,300 each ( <i>same acts</i> ) .....	18,200.00	
(20) One printer or compositor ( <i>same acts</i> ) .....	1,200.00	
(21) Six printers or compositors, at \$1,080 each ( <i>same acts</i> ) .....	6,480.00	
(22) Five printers or compositors, at \$1,000 each ( <i>same acts</i> ) .....	5,000.00	
(23) Four folders and feeders, at \$720 each ( <i>same acts</i> ) .....	2,880.00	
(24) One supervising instrument maker (by transfer from lump fund for aerological stations) ( <i>same acts</i> ) .....	1,620.00	
(25) One instrument maker ( <i>same acts</i> ) .....	1,440.00	
(26) Three instrument makers, at \$1,300 each ( <i>same acts</i> ) .....	3,900.00	
(27) One instrument maker ( <i>same acts</i> ) .....	1,260.00	
(28) One skilled mechanic ( <i>same acts</i> ) .....	1,300.00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Weather Bureau—Continued.</i>			
(29) Three skilled mechanics, at \$1,200 each ( <i>R. S., p. 87, secs. 520-523; acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) .....	\$3,600.00		
(30) Five skilled mechanics, at \$1,000 each ( <i>same acts</i> ) .....	5,000.00		
(31) One skilled mechanic ( <i>same acts</i> ) .....	840.00		
(32) Six skilled artisans, at \$840 each ( <i>same acts</i> ) .....	5,040.00		
(33) One engineer ( <i>same acts</i> ) .....	1,300.00		
(34) One assistant engineer ( <i>submitted</i> ) .....	1,200.00		
NOTE.—This is a new place. The Weather Bureau has its own plant, which supplies eat, light, and power for a large group of buildings and power for the printing office and mechanical shops. This plant must be operated every day in the year, Sundays and holidays included, until midnight, because of the necessity of conducting observation and forecast work at night. The present force of five firemen and one engineer is insufficient for its operation and necessitates placing the plant in charge of a fireman during the absence of the engineer and at night, which is an unsatisfactory arrangement.			
(35) One fireman and steamfitter ( <i>R. S., p. 87, secs. 520-523; acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, p. 236, sec. 1</i> ) .....	840.00		
(36) Four firemen, at \$720 each ( <i>same acts</i> ) .....	2,880.00		
(37) One captain of the watch ( <i>same acts</i> ) .....	1,000.00		
(38) One electrician ( <i>same acts</i> ) .....	1,200.00		
(39) One repairman (by transfer from lump fund for station salaries) ( <i>same acts</i> ) .....	1,200.00		
(40) One repairman ( <i>same acts</i> ) .....	960.00		
(41) One gardener ( <i>same acts</i> ) .....	1,000.00		
(42) Four repairmen, at \$840 each ( <i>same acts</i> ) .....	3,360.00		
(43) Six repairmen, at \$720 each ( <i>same acts</i> ) .....	4,320.00		
(44) Four watchmen, at \$720 each ( <i>same acts</i> ) .....	2,880.00		
(45) Twenty-eight messengers or laborers, at \$720 each ( <i>same acts</i> ) .....	20,160.00		
(46) Six messengers or laborers, at \$660 each ( <i>same acts</i> ) .....	3,960.00		
(47) Twenty-two messengers or laborers, at \$600 each ( <i>same acts</i> ) ..	13,200.00		
(48) Eleven messenger boys, at \$600 each ( <i>same acts</i> ) .....	6,600.00		
(49) Ninety-nine messenger boys, at \$480 each ( <i>same acts</i> ) .....	47,520.00		
(50) One charwoman ( <i>same acts</i> ) .....	360.00		
(51) Three charwomen, at \$240 each ( <i>same acts</i> ) .....	720.00		
		\$349,310.00	\$342,890.00
Appropriations for 1911.....	\$206,150	Estimates for 1912.....	\$342,800
Appropriations for 1912.....	313,170	Estimates for 1913.....	317,120
Appropriations for 1913.....	315,930	Estimates for 1914.....	330,240
Appropriations for 1914.....	325,860	Estimates for 1915.....	328,270
Appropriations for 1915.....	327,270	Estimates for 1916.....	324,640
Appropriations for 1916.....	332,900	Estimates for 1917.....	341,210
Appropriations for 1917.....	336,060	Estimates for 1918.....	342,230
Appropriations for 1918.....	327,900	Estimates for 1919.....	328,950
Appropriations for 1919.....	328,950	Estimates for 1920.....	343,610
Appropriations for 1920.....	342,890	Estimates for 1921.....	349,310



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Weather Bureau—Continued.</i>		
NOTE.—Apparent increase, \$6,420; actual increase, \$1,200, as follows:		
<i>New place.</i>		
1 assistant engineer..... \$1, 200		
Actual increase..... \$1, 200		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
2 clerks, class 1, from aerological stations..... 2, 400		
1 supervising instrument maker, from aerological stations. 1, 620		
1 repairman, from station salaries..... 1, 200		
	5, 220	
Apparent increase..... 6, 420		
<i>General Expenses, Weather Bureau—</i>		
(52) For carrying into effect in the District of Columbia and elsewhere in the United States, in the West Indies, in the Panama Canal, the Caribbean Sea, and on adjacent coasts, in the Hawaiian Islands, in Bermuda, and in Alaska, the provisions of an act approved Oct. 1, 1890, so far as they relate to the weather service transferred thereby to the Department of Agriculture, for the employment of professors of meteorology, district forecasters, local forecasters, meteorologists, section directors, observers, apprentices, operators, skilled mechanics, instrument makers, foremen, assistant foremen, proof readers, compositors, pressmen, lithographers, folders and feeders, repairmen, station agents, messengers, messenger boys, laborers, special observers, displaymen, and other necessary employees; for fuel, gas, electricity, freight and express charges, furniture, stationery, ice, dry goods, twine, mats, oil, paints, glass, lumber, hardware, and washing towels; for advertising; for purchase, subsistence, and care of horses and vehicles, the purchase and repair of harness, for official purposes only; for instruments, shelters, apparatus, storm-warning towers and repairs thereto; for rent of offices; for repairs and improvements to existing buildings and care and preservation of grounds, including the construction of necessary outbuildings and sidewalks on public streets abutting Weather Bureau grounds; and the erection of temporary buildings for living quarters of observers; for official traveling expenses; for telephone rentals, and for telegraphing, telephoning, and cabling reports and messages, rates to be fixed by the Secretary of Agriculture by agreements with the companies performing the service; for the maintenance and repair of Weather Bureau telegraph, telephone, and cable lines; and for every other expenditure required for the establishment, equipment, and maintenance of meteorological offices and stations and for the issuing of weather forecasts and warnings of storms, cold waves, frosts, and heavy snows, the gauging and measuring of the flow of rivers and the issuing of river forecasts and warnings; for observations and reports relating to crops and for other necessary observations and reports, including cooperation with other bureaus of the Government and societies and institutions of learning for the dissemination of meteorological information, as follows ( <i>acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, pp. 236, 237, sec. 1</i> ):		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Weather Bureau—Continued.</i>			
(53) For necessary expenses in the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology <b>[\$109,250]</b> ( <i>acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, pp. 236, 237, sec. 1</i> ) - \$116, 190. 00			
Appropriation for 1911.....	\$94, 000	Estimate for 1912.....	\$114, 000
Appropriation for 1912.....	106, 000	Estimate for 1913.....	104, 000
Appropriation for 1913.....	105, 500	Estimate for 1914.....	105, 500
Appropriation for 1914.....	105, 500	Estimate for 1915.....	110, 000
Appropriation for 1915.....	110, 000	Estimate for 1916.....	110, 000
Appropriation for 1916.....	110, 000	Estimate for 1917.....	109, 250
Appropriation for 1917.....	109, 250	Estimate for 1918.....	109, 250
Appropriation for 1918.....	109, 250	Estimate for 1919.....	109, 250
Appropriation for 1919.....	109, 250	Estimate for 1920.....	109, 250
Appropriation for 1920.....	109, 250	Estimate for 1921.....	116, 190
NOTE.—There is an increase in the above item of \$6,940, which amount will be required to cover the central office expenses incident to the proposed extension of the vessel weather service and the transfer to the Weather Bureau of the supervisory work and maintenance expense in connection with the meteorological observations now being made by the Bureau of Plant Industry at several of its field stations, especially in the Great Plains.			
Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Meteorologists.....per annum.....	\$3, 960. 00	3	3
Meteorologist.....do.....	3, 500. 00	1	1
Meteorologist.....do.....	3, 250. 00	1	1
Meteorologist.....do.....	2, 160. 00	1	1
Meteorologists.....do.....	1, 800. 00	5 (2 new)	4 (1 temp.)
Meteorologists.....do.....	1, 620. 00	6	7 (1 pt.time)
Meteorologists.....do.....	1, 440. 00	2 (new)	1 (temp.)
Professor of meteorology.....do.....	3, 500. 00	1	1
Professor of meteorology.....do.....	2, 880. 00	1	1
Professor of meteorology.....do.....	2, 520. 00	1	1
Climatologist and chief of division.....do.....	2, 520. 00	1	1
Lithographer.....do.....	1, 500. 00	..	1 (temp.)
Observer.....do.....	1, 440. 00	1	1
Observer.....do.....	1, 260. 00	1	1
Assistant observer.....do.....	1, 080. 00	..	1 (temp.)
Clerk, instrument maker, observer, and storm-warning displayman, \$960 to \$120.....do.....		2 (1 new, 1 pt.time)	3 (1 temp., 2 pt.time)
		28	29
Salaries.....		\$56, 700. 00	\$46, 232. 17
<b>Other objects of expenditure:</b>			
Stationery.....		1, 750. 00	1, 241. 28
Equipment and material.....		6, 500. 00	4, 207. 14
Telephone and telegraph service.....		38, 000. 00	36, 800. 01
Miscellaneous items.....		13, 240. 00	14, 022. 85
<b>Total.....</b>		<b>116, 190. 00</b>	<b>102, 503. 45</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Weather Bureau—Continued.*

- (54) For the maintenance of a printing office in the city of Washington for the printing of weather maps, bulletins, circulars, forms, and other publications, including the pay of additional employees, when necessary, **["\$12,800"] \$15,000**: *Provided*, That no printing shall be done by the Weather Bureau that, in the judgment of the Secretary of Agriculture, can be done at the Government Printing Office without impairing the service of said bureau: *And provided further*, That the proviso contained in section 11 of the Act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1920, shall not prohibit the printing in the printing office of the Weather Bureau in the city of Washington of the maps, bulletins, circulars, forms, and other publications herein authorized (*acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41; pp. 236, 237, sec. 1*) ..... **\$15, 000. 00**

Appropriation for 1911.....	\$40,000	Estimate for 1912.....	\$35,530
Appropriation for 1912.....	40,000	Estimate for 1913.....	16,750
Appropriation for 1913.....	18,000	Estimate for 1914.....	16,750
Appropriation for 1914.....	16,750	Estimate for 1915.....	26,000
Appropriation for 1915.....	26,000	Estimate for 1916.....	14,000
Appropriation for 1916.....	14,000	Estimate for 1917.....	14,000
Appropriation for 1917.....	12,800	Estimate for 1918.....	12,800
Appropriation for 1918.....	12,800	Estimate for 1919.....	12,800
Appropriation for 1919.....	12,800	Estimate for 1920.....	12,800
Appropriation for 1920.....	12,800	Estimate for 1921.....	15,000

NOTE.—There is an increase in the above item of \$2,200. This additional amount is made necessary by the great advance in the cost of materials and supplies of all kinds. There has been no increase in this appropriation for several years.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Compositor.....	\$1,350.00	.....	1 temp.
			1
Salaries.....			\$239.58
Other object of expenditure:			
Stationery.....		\$9,000.00	6,839.07
Equipment and material.....		4,000.00	3,959.81
Miscellaneous items.....		2,000.00	1,649.54
Total.....		15,000.00	12,688.00

- (55) For necessary expenses outside of the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology, **["\$1,304,230"] \$1,373,430**, including not to exceed **["\$672,500"] \$726,800** for salaries, **["\$129,040"] \$134,540** for special observations and reports, and **["\$295,750"] \$298,750** for telegraphing and telephoning (*same acts*) ..... **1, 373, 430. 00**

Appropriation for 1911.....	\$620,410	Estimate for 1912.....	\$539,580
Appropriation for 1912.....	546,580	Estimate for 1913.....	555,000
Appropriation for 1913.....	569,000	Estimate for 1914.....	585,000
Appropriation for 1914.....	1,189,000	Estimate for 1915.....	1,189,000
Appropriation for 1915.....	1,189,000	Estimate for 1916.....	1,231,110
Appropriation for 1916.....	1,185,150	Estimate for 1917.....	1,260,150
Appropriation for 1917.....	1,242,650	Estimate for 1918.....	1,342,750
Appropriation for 1918.....	1,301,190	Estimate for 1919.....	1,302,690
Appropriation for 1919.....	1,312,190	Estimate for 1920.....	1,330,150
Appropriation for 1920.....	1,304,230	Estimate for 1921.....	1,373,430





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																												
<i>General Expenses, Weather Bureau—Continued.</i>																																																																																																																														
<p>NOTE.—There is an apparent increase in the above item of \$69,200, but taking into consideration the transfer to the statutory roll of 1 repairman at \$1,200, the actual increase is \$70,400. It is estimated that this amount will be necessary (a) to meet the higher cost of maintaining the regular forecast and warning work at the 200 or more stations of the Weather Bureau and for the proper extension of this service; (b) for the extension of the vessel weather service, in order to secure a larger number of wireless reports during the hurricane season in the Atlantic, Gulf, and Caribbean Sea regions and also to inaugurate a greatly needed service of this character on the coastal waters of the Pacific Ocean westward of the United States; (c) for the enlargement of the fruit frost service, which even on its present limited basis has resulted in great savings to fruit growers through the dissemination of special localized forecasts furnished by trained officials of the Weather Bureau on the ground, making possible the prompt adoption of the protective measures recommended; (d) for the inauguration of special 48 to 72 hour forecasts for use in connection with orchard spraying operations, so as to enable the bureau to give warnings to fruit growers sufficiently in advance of rainy spells to produce the best results from the application of sprays; (e) for the extension of the cattle region weather service to Montana, where the live stock in 1918 was valued at approximately \$1,500,000, and to inaugurate a daily corn and wheat service in sections of the country where large quantities of these cereals are grown, but which the bureau has been unable to cover because of lack of funds; and (f) to provide for the upkeep of the instrumental equipment and for working over, tabulating, and disseminating meteorological data secured at the various field stations of the Bureau of Plant Industry located in the arid and semiarid sections of the country, especially in the Great Plains.</p>																																																																																																																														
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Weather Bureau—Continued.</i>					
<i>Special observations and reports.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
		<i>Number.</i>	<i>Number.</i>		
Salaries:					
River observers at salaries ranging from \$16 to \$1 per month, period of service varying from 3 to 12 months, average salary.....per annum..	\$75.00	440	428		
Rainfall observers, at salaries ranging from \$4 to \$1 per month, period of service ranging from 6 to 12 months, average salary.....per annum..	30.00	70	60		
Flood warning distributors, \$2 each flood.....per annum..		12	12		
Mountain snowfall observers, at salaries ranging from \$20 to \$2 per month, period of service ranging from 6 to 12 months, average salary.....per annum..	60.00	140	138		
Storm warning displaymen at salaries ranging from \$25 to \$5 per month, period of service varying from 6 to 12 months, average salary.....per annum..	90.00	148	145		
Cattle, cotton, and other crop observers, at salaries ranging from \$25 to \$4 per month, period of service varying from 1 to 12 months, average salary.....per annum..	65.00	500	482		
Special meteorological observers at salaries ranging from \$50 to \$5 per month, period of service ranging from 3 to 12 months, average salary.....per annum..	333.00	466	44		
Special marine observers at 50 cents per observation, average salary.....per annum..	100.00	70	38		
Hurricane observers, at salaries, ranging from \$40 to \$10 per month, period of service varying from 5½ to 12 months, average salary.....per annum..	300.00	15	13		
		1,441	1,350		
Salaries.....		\$118,000.00	106,597.59		
Other objects of expenditure:					
Equipment and material.....		9,000.00	4,439.24		
Miscellaneous items.....		7,540.00	4,328.56		
Total.....		134,540.00	115,365.39		
<i>Telegraphing and telephoning.</i>					
Other objects of expenditure.		Estimated, 1921.	Expended, 1919.		
Telegraph and telephone service.....		\$298,750.00	\$222,289.73		
<i>Miscellaneous station expenses.</i>					
Other objects of expenditure.		Estimated, 1921.	Expended, 1919.		
Stationery.....		\$23,000.00	\$20,569.73		
Equipment and material.....		90,000.00	105,586.27		
Miscellaneous items.....		100,340.00	133,778.56		
Total.....		213,340.00	259,934.56		





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
General Expenses, Weather Bureau—Continued.		
(56) For official traveling expenses <b>["\$26,000"]</b> ( <i>acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; July 24, 1919, vol. 41, pp. 236, 237, sec. 1</i> ) -----	\$28,200.00	
Appropriation for 1911..... \$22,000	Estimate for 1912..... \$22,000	
Appropriation for 1912..... 22,000	Estimate for 1913..... 22,000	
Appropriation for 1913..... 22,000	Estimate for 1914..... 24,500	
Appropriation for 1914..... 24,500	Estimate for 1915..... 24,500	
Appropriation for 1915..... 30,000	Estimate for 1916..... 24,000	
Appropriation for 1916..... 24,000	Estimate for 1917..... 24,000	
Appropriation for 1917..... 24,000	Estimate for 1918..... 25,500	
Appropriation for 1918..... 25,500	Estimate for 1919..... 25,500	
Appropriation for 1919..... 26,000	Estimate for 1920..... 26,000	
Appropriation for 1920..... 26,000	Estimate for 1921..... 28,200	
NOTE.—The increase of \$2,200 in this item will be required to cover additional travel in connection with the extension of the fruit-frost service, the orchard-spraying service, and the meteorological observations at the dry-land stations of the Bureau of Plant Industry, proposed under item 55.		
Other objects of expenditure.	Estimated, 1921.	Expended, 1919.
Traveling expenses.....	\$28,200.00	\$21,272.27
(57) For the establishment and maintenance <b>["by the Weather Bureau"]</b> of additional aerological stations, for observing, measuring, and investigating atmospheric phenomena, <i>and the issuing of weather forecasts, advices, and warnings in the aid of military, naval, and civil aeronautics, and in the development of navigation of the air</i> , including salaries, travel, and <i>all other expenses in the city of Washington and elsewhere</i> <b>["\$85,040"]</b> ( <i>same acts</i> ) -----	281,020.00	
Appropriation for 1919..... \$98,740	Estimate for 1919..... \$98,740	
Appropriation for 1920..... 85,040	Estimate for 1920..... 85,000	
	Estimate for 1921..... 281,020	
NOTE.—There is an apparent increase in this item of \$195,980, but taking into consideration transfers to the statutory roll aggregating \$4,020, the actual increase is \$200,000.		
Through cooperation with the Signal Corps, the Weather Bureau has inaugurated a limited forecast and warning service regarding upper-air conditions at about 20 Army stations, together with 5 additional stations operated by the bureau. This service is indispensable and is awaited by military and post-office flyers before starting on their flights. It is highly important that funds be provided for extending the service to every portion of the United States in which flying is in progress. In cooperation with the Director of Military Aeronautics, arrangements recently were made for furnishing forecasts covering flying conditions over 13 zones, distributed advantageously over the United States.		
In addition it is proposed to establish about 25 new pilot balloon stations for taking observations of the motion of the air in the upper strata, variously distributed in the 13 forecast zones. The expenses at these stations consist of the cost of theodolites and instruments and for gas and small rubber balloons and the salaries of men required to make and reduce observations and render the necessary reports. These investigations must be carried to regions over the oceans, since scarcely any observational knowledge has heretofore been obtained of the upper-air conditions over the oceans. Transoceanic aerial navigation is an accomplished fact, and in anticipation of its fuller development it is most important to secure in advance definite knowledge of free-air conditions.		
It is also desirable to increase the number of full observation stations. The bureau is now maintaining such stations at only 6 of the 200 regular observation stations, a number inadequate to meet present requirements and the growing needs of the service in aid of aviation. At least three additional stations should be established. For the better and more comprehensive determination of temperature, moisture, and other conditions in the upper air at much greater elevations than obtainable with kites and pilot balloons, it is very important to carry on a campaign of sounding balloon observations. This requires balloons of a larger size than the pilot balloons, and they ascend to much higher elevations, carrying with them a suitable very light recording instrument. The observations furnished by these sounding balloons supplement the data secured by means of the pilot balloons and give the forecaster information regarding air conditions required for the proper execution of his work.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Weather Bureau—Continued.</i>					
<p>Under its organic act the Weather Bureau is charged with the performance of this work in the aid of agriculture, commerce, and navigation. No other branch of navigation is so vitally concerned in atmospheric phenomena as aviation. The agencies which are active in promoting the development of aeronautics look to the Weather Bureau for furnishing this new need. No other agency of the Government now has like authority of law to engage in or perform this work, and if the Weather Bureau fails to meet the requirements it will certainly become necessary for other agencies to undertake the work, and this will result in wasteful duplication and necessitate much larger expenditures.</p> <p>The language of this paragraph has been amended so as to specifically provide for a service of weather forecasts, advices, and warnings, in addition to the purely investigational activities authorized by the present language; also to more clearly indicate the scope of the work contemplated.</p>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		<i>Number.</i>	<i>Number.</i>		
Meteorologist.....per annum..	\$3,600.00	1 (new)	..		
Meteorologist.....do.....	3,240.00	1	..		
Meteorologist.....do.....	2,880.00	1 (new)	..		
Meteorologist.....do.....	2,280.00	1 (new)	..		
Meteorologist.....do.....	2,160.00	1	1		
Meteorologists.....do.....	1,800.00	13 (12 new)	1		
Meteorologists.....do.....	1,620.00	11 (8 new)	4 (1 pt. time)		
Observers.....do.....	1,440.00	17 (13 new)	4		
Observers.....do.....	1,260.00	36 (22 new)	15 (1 temp.)		
Assistant observers.....do.....	1,080.00	5	1		
Assistant observers.....do.....	900.00	..	8 (4 temp.)		
Clerks.....do.....	1,200.00	..	2		
Clerks.....do.....	1,000.00	..	2		
Supervising instrument maker.....do.....	840.00	..	1 (pt. time)		
Emergency assistant, observers, assistant observers, etc., \$4 to \$2.....per diem.....		50			
Wages:					
Laborers.....per annum.....	840.00	6 (new)	3 (temp.)		
		143	42		
Salaries.....		\$134,660.00	\$43,662.35		
Wages.....		5,040.00	1,288.83		
Other objects of expenditure:					
Stationery.....		2,000.00	371.41		
Traveling expenses.....		5,500.00	1,817.25		
Equipment and material.....		87,000.00	16,840.71		
Telephone and telegraph service.....		3,500.00	147.00		
Miscellaneous items.....		43,320.00	21,314.05		
Total.....		281,020.00	85,441.60		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																												
<p><i>General Expenses, Weather Bureau—Continued.</i></p> <p>(58) <i>For the establishment and maintenance of special stations in national forests and elsewhere, the collection of reports and the issuing of forecasts and warnings in connection with the protection of forests from fires, in cooperation with the Forest Service, State and other organizations, including salaries, travel, and other expenses in the city of Washington and elsewhere (submitted) -----</i> \$15, 000. 00</p> <p>NOTE.—This is a new item. The purpose of this service is the making and dissemination by district forecasters of warnings of weather conditions favorable to the inception and spread of forest fires and of the approach of rains which affect their control after fires have started. Present appropriations are insufficient to organize an efficient system of reporting stations and provide for the employment of competent officials to make comprehensive surveys and studies of the affected regions and the conditions justifying the issuance of warnings. The extensive and destructive forest fires that prevailed in the Northwestern States during the past summer emphasize the need for this kind of service. It is desired to establish a number of reporting stations throughout the affected regions and to assign two or more forecasters to study all the information available with a view to furnish advance information as to the approach of threatening conditions before fires occur and where and when rains may be expected when fires are in progress.</p> <table> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1921.</th> <th>Expended, 1919.<sup>1</sup></th> </tr> <tr> <td></td> <td></td> <th>Number.</th> <th>Number.</th> </tr> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Meteorologists.....per annum..</td> <td>\$1, 800. 00</td> <td>2</td> <td>.....</td> </tr> <tr> <td>Observer.....do.....</td> <td>1, 260. 00</td> <td>1</td> <td>.....</td> </tr> <tr> <td>Special observers, from \$1 to 50</td> <td></td> <td></td> <td></td> </tr> <tr> <td>  cents per observation.....do....</td> <td>50. 00</td> <td>45</td> <td>.....</td> </tr> <tr> <td></td> <td></td> <td>48</td> <td>.....</td> </tr> <tr> <td>Salaries.....</td> <td></td> <td>\$7, 110. 00</td> <td>.....</td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>  Traveling expenses.....</td> <td></td> <td>1, 400. 00</td> <td>.....</td> </tr> <tr> <td>  Equipment and material.....</td> <td></td> <td>2, 200. 00</td> <td>.....</td> </tr> <tr> <td>  Telephone and telegraph service.....</td> <td></td> <td>3, 890. 00</td> <td>.....</td> </tr> <tr> <td>  Miscellaneous items.....</td> <td></td> <td>400. 00</td> <td>.....</td> </tr> <tr> <td>Total.....</td> <td></td> <td>15, 000. 00</td> <td>.....</td> </tr> </table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>			Number.	Number.	Salaries:				Meteorologists.....per annum..	\$1, 800. 00	2	.....	Observer.....do.....	1, 260. 00	1	.....	Special observers, from \$1 to 50				cents per observation.....do....	50. 00	45	.....			48	.....	Salaries.....		\$7, 110. 00	.....	Other objects of expenditure:				Traveling expenses.....		1, 400. 00	.....	Equipment and material.....		2, 200. 00	.....	Telephone and telegraph service.....		3, 890. 00	.....	Miscellaneous items.....		400. 00	.....	Total.....		15, 000. 00	.....		
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<sup>1</sup> No appropriation for fiscal year 1919.



Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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General Expenses, Weather Bureau—Continued.

- (59) For the extension of marine meteorological work, the collection of weather and water temperature reports at sea, the preparation of charts, the determining of fog zones, the distribution of marine meteorological information in the aid of navigation, and to carry out the provisions of the act of Congress approved June 17, 1910 (Thirty-sixth Statutes at Large, page five hundred and eight), for the collecting and furnishing of meteorological information to the Hydrographic Office of the Navy Department for use in the preparation of pilot charts, including salaries, travel, and other expenses in the city of Washington and elsewhere (submitted) ----- \$50,000.00

NOTE.—This is a new item. For many years the Weather Bureau has been engaged in the collection of meteorological reports from vessels at sea, the principal object of which has been to supply data required for the pilot chart published by the Hydrographic Office of the Navy Department, as required by act of Congress. This work has been conducted with very little expense. The observations are made under cooperative arrangements with vessel captains of ships of all nationalities. No payment is made for the observations other than the marine information and meteorological publications furnished and the correction of the barometers when the ships enter ports at which Weather Bureau stations are located. The only additional expense has been for salaries of a few clerks engaged in charting and compiling the data now furnished the Hydrographic Office. The placing of so many United States mercantile ships on the seas has created a greater demand than ever before for definite information pertaining to the surface meteorology of the ocean, making it necessary to further develop the existing service. Employees of the Weather Bureau at stations located in important seaport cities must visit ships and confer with vessel masters, enlist cooperative reports, check their instruments, and supply them with information. Maps and bulletins must be prepared and issued containing the current meteorology of the ocean as far as possible, especially the great highways and lanes of marine travel, in order to make available accurate information as to stormy regions and occasions. Up to the present time masters of vessels have provided their own instruments, and experience shows that observations are often highly inaccurate. However, it is not the purpose of the Weather Bureau to supply instruments to vessel masters except possibly in the case of a very limited number of selected ships plying waters where data are now deficient or entirely lacking or where vessels render reports by wireless in important regions.

Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>
Salaries:		Number.	Number.
Meteorologist.....per annum..	\$3,240.00	1	.....
Meteorologists.....do.....	2,160.00	3	.....
Meteorologists.....do.....	1,800.00	4	.....
Meteorologists.....do.....	1,620.00	5	.....
Observers.....do.....	1,440.00	5	.....
Observers.....do.....	1,260.00	2	.....
Emergency assistance, \$4 to \$1 per diem..	.....	10	.....
		30	.....
Salaries.....		\$35,000.00	.....
Other objects of expenditure:			
Traveling expenses.....		1,000.00	.....
Equipment and material.....		5,000.00	.....
Telephone and telegraph service.....		2,000.00	.....
Miscellaneous items.....		7,000.00	.....
Total.....		50,000.00	.....

<sup>1</sup> No appropriation for fiscal year 1919.

In all, for general expenses ----- \$1,878,840.00 \$1,537,320.00

Appropriations for 1911.....	\$1,293,610	Estimates for 1912.....	\$1,283,310
Appropriations for 1912.....	1,262,080	Estimates for 1913.....	1,268,330
Appropriations for 1913.....	1,278,750	Estimates for 1914.....	1,310,250
Appropriations for 1914.....	1,356,750	Estimates for 1915.....	1,317,000
Appropriations for 1915.....	1,340,000	Estimates for 1916.....	1,379,110
Appropriations for 1916.....	1,333,150	Estimates for 1917.....	1,457,400
Appropriations for 1917.....	1,411,200	Estimates for 1918.....	1,512,800
Appropriations for 1918.....	1,455,240	Estimates for 1919.....	1,573,980
Appropriations for 1919.....	1,583,980	Estimates for 1920.....	1,563,240
Appropriations for 1920.....	1,537,320	Estimates for 1921.....	1,878,840





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.						Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Weather Bureau—Continued.</i>							
(60) <i>The Secretary of Agriculture shall cause the premises known as Mount Weather, situate at Mount Weather, in the counties of Loudoun and Clarke, in the State of Virginia, and comprising eighty-four and eighty-one one-hundredths acres of land, more or less, together with the buildings and other improvements thereon, including laboratories, cottages, sheds, stables, shops, heating and power plant, kite shelter, and other buildings of whatever nature, together with all the rights, easements, and appurtenances thereto belonging, to be sold at public sale and conveyed to the highest bidder for cash, first having given not less than thirty days' public notice of the time, place, and terms of sale immediately prior to such sale, by publication in at least two newspapers having a general circulation in the county or sections of the counties where the premises are situate; the net proceeds of the sale, after deducting the expenses incidental thereto, to be turned into the Treasury as miscellaneous receipts.</i>							
NOTE.—In the agricultural appropriation bill for 1915 the Secretary of Agriculture was directed to report the condition and value of the buildings and grounds at Mount Weather and whether, in his opinion, it would be more advantageous to sell the same at public auction or private sale, etc. This was done, and later it was determined to make further effort to dispose of the property to some other branch of the Government service. During the war representatives of various branches of the War and Navy Departments, the Public Health Service, and other Government organizations visited Mount Weather, but none of these agencies desired to use the property. The buildings are deteriorating, and, as the Weather Bureau is not likely to use them again, it seems desirable to dispose of the premises by sale.							
Statement of the proposed expenditures from the above appropriations for general expenses, Weather Bureau, for the fiscal year ending June 30, 1921, for the maintenance, repair, and operation of horse-drawn passenger-carrying vehicles, as required by section 5 of the act of July 16, 1914 (38 Stat., p. 508).							
Bureau.	Horse-drawn or motor-propelled.	Appropriation.	For maintenance, repair, and operation.			Public purpose for which intended.	Officials and employees by whom used.
			Num-ber.	Descrip-tion.	Amount.		
Weather Bureau.....	Horse-drawn	General ex-penses, Weather Bureau.	1	Surrey.	\$175	Administra-tive work of bureau.	Chief and act-ing chief, Washington, D. C.
Statement of clerks employed in District of Columbia under lump-fund appropriation for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).							
GENERAL EXPENSES—WEATHER BUREAU.							
4 clerks, at \$1,000 each per annum. 1 clerk, \$960 per annum.							
Total for Weather Bureau.....						\$2, 228, 150. 00	\$1, 880, 210. 00



Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
BUREAU OF ANIMAL INDUSTRY.		
<i>Salaries, Bureau of Animal Industry—</i>		
(1) One chief of bureau ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; July 24, 1919, vol. 41, p. 238, sec. 1) .....	\$5,000.00	
(2) One chief clerk ( <i>same acts</i> ) .....	2,500.00	
(3) One editor and compiler ( <i>same acts</i> ) .....	2,250.00	
(4) One executive assistant ( <i>same acts</i> ) .....	2,500.00	
(5) Four executive clerks, at \$2,000 each (increase of 1 by transfer from lump fund for inspection and quarantine) ( <i>same acts</i> ) ..	8,000.00	
(6) Ten clerks, class 4 (increase of 3 by transfer from lump funds, 2 from dairy industry, and 1 from meat inspection) ( <i>same acts</i> ) .....	18,000.00	
(7) One clerk ( <i>same acts</i> ) .....	1,680.00	
(8) Fifteen clerks, class 3 (increase of 1 by transfer from lump fund for diseases of animals) ( <i>same acts</i> ) .....	24,000.00	
(9) Seven clerks, at \$1,500 each (increase of 4 by transfer from lump funds for inspection and quarantine, dairy industry, eradicating hog cholera, and meat inspection) ( <i>same acts</i> ) ..	10,500.00	
(10) Thirty-six clerks, class 2 (increase of 2 by transfer from lump funds for eradicating hog cholera and meat inspection) ( <i>same acts</i> ) .....	50,400.00	
(11) Three clerks, at \$1,380 each (increase of 1 by transfer from lump fund for meat inspection) ( <i>same acts</i> ) .....	4,140.00	
(12) Four clerks, at \$1,320 each (increase of 1 by transfer from lump fund for eradicating cattle ticks) ( <i>same acts</i> ) .....	5,280.00	
(13) One clerk ( <i>same acts</i> ) .....	1,300.00	
(14) Three clerks, at \$1,260 each (increase of 1 by transfer from lump fund for meat inspection) ( <i>same acts</i> ) .....	3,780.00	
(15) One hundred and sixty-three clerks, class 1 (increase of 41 by transfer from lump funds, 1 from inspection and quarantine, 8 from tuberculosis eradication, 5 from eradicating cattle ticks, 2 from dairy industry, 2 from eradicating hog cholera, 2 from dourine eradication, and 21 from meat inspection) ( <i>same acts</i> ) .....	195,600.00	
(16) Fifteen clerks, at \$1,100 each (increase of 11 by transfer from lump funds, 1 from inspection and quarantine, 1 from eradicating cattle ticks, 1 from tuberculosis eradication, 4 from animal husbandry, 3 from eradicating hog cholera, and 1 from meat inspection) ( <i>same acts</i> ) .....	16,500.00	
(17) Ten clerks, at \$1,080 each (increase of 4 by transfer from lump funds, 1 from inspection and quarantine, and 3 from tuberculosis eradication) ( <i>same acts</i> ) .....	10,800.00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
(18) Twelve clerks, at \$1,020 each (increase of 1 by transfer from lump fund for eradicating hog cholera) ( <i>R. S., p. 87, secs. 520-523; acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; July 24, 1919, vol. 41, p. 238, sec. 1</i> ).....	\$12,240.00	
(19) Seventy-two clerks, at \$1,000 each (increase of 7 by transfer from lump funds, 3 from tuberculosis eradication, 2 from dairy industry, and 2 from eradicating hog cholera) ( <i>same acts</i> ).....	72,000.00	
(20) Fourteen clerks, at \$960 each ( <i>same acts</i> ).....	13,440.00	
(21) Fifty-three clerks, at \$900 each ( <i>same acts</i> ).....	47,700.00	
(22) One architect ( <i>same acts</i> ).....	2,000.00	
(23) One illustrator ( <i>same acts</i> ).....	1,400.00	
(24) One laboratory aid ( <i>same acts</i> ).....	1,200.00	
(25) One laboratory helper ( <i>same acts</i> ).....	1,200.00	
(26) Two laboratory helpers, at \$1,020 each ( <i>same acts</i> ).....	2,040.00	
(27) One laboratory helper ( <i>same acts</i> ).....	1,000.00	
(28) One laboratory helper ( <i>same acts</i> ).....	960.00	
(29) Two laboratory helpers, at \$840 each ( <i>same acts</i> ).....	1,680.00	
(30) One laboratory helper ( <i>same acts</i> ).....	720.00	
(31) Two laboratory helpers, at \$600 each ( <i>same acts</i> ).....	1,200.00	
(32) One laboratory mechanician ( <i>same acts</i> ).....	1,440.00	
(33) One carpenter ( <i>same acts</i> ).....	1,140.00	
(34) Two carpenters, at \$1,000 each ( <i>same acts</i> ).....	2,000.00	
(35) Two messengers and custodians, at \$1,200 each ( <i>same acts</i> )..	2,400.00	
(36) One quarantine assistant ( <i>same acts</i> ).....	900.00	
(37) One skilled laborer (by transfer from lump fund for abortion of animals) ( <i>same acts</i> ).....	1,200.00	
(38) Three skilled laborers, at \$1,000 each (increase of 1 by transfer from lump fund for tuberculosis eradication) ( <i>same acts</i> )..	3,000.00	
(39) Eleven skilled laborers, at \$900 each (increase of 1 by transfer from lump fund for dairy industry) ( <i>same acts</i> ).....	9,900.00	
(40) One painter ( <i>same acts</i> ).....	900.00	
(41) Two laborers, at \$900 each ( <i>same acts</i> ).....	1,800.00	
(42) Eleven messengers or laborers, at \$840 each (increase of 2 by transfer from lump funds for dairy industry and animal husbandry) ( <i>same acts</i> ).....	9,240.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Animal Industry—Continued.</i>			
(43)	Three laborers, at \$780 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; July 24, 1919, vol. 41, p. 238, sec. 1</i> ) .....	\$2, 340. 00	
(44)	Twenty-nine messengers or laborers, at \$720 each ( <i>same acts</i> ) ..	20, 880. 00	
(45)	Four laborers, at \$660 each ( <i>same acts</i> ) .....	2, 640. 00	
(46)	Twenty-four laborers, at \$600 each ( <i>same acts</i> ) .....	14, 400. 00	
(47)	Thirty-two laborers, at \$540 each ( <i>same acts</i> ) .....	17, 280. 00	
(48)	Thirty laborers, at \$480 each ( <i>same acts</i> ) .....	14, 400. 00	
(49)	Two messenger boys, at \$660 each (increase of 1 by transfer from lump fund for tuberculosis eradication) ( <i>same acts</i> ) ..	1, 320. 00	
(50)	Three messenger boys, at \$600 each ( <i>same acts</i> ) .....	1, 800. 00	
(51)	Twenty-five messenger boys, at \$480 each (increase of 9 by transfer from lump funds, 1 from inspection and quarantine, 2 from tuberculosis eradication, 1 from dairy industry, 1 from animal husbandry, 1 from diseases of animals, 1 from abortion of animals, 1 from eradicating hog cholera, and 1 from meat inspection) ( <i>same acts</i> ) .....	12, 000. 00	
(52)	Eight messenger boys, at \$360 each ( <i>same acts</i> ) .....	2, 880. 00	
(53)	One charwoman ( <i>same acts</i> ) .....	600. 00	
(54)	Two charwomen, at \$540 each ( <i>same acts</i> ) .....	1, 080. 00	
(55)	Seventeen charwomen, at \$480 each (increase of 1 by transfer from lump fund for meat inspection) ( <i>same acts</i> ) .....	8, 160. 00	
(56)	Five charwomen, at \$360 each ( <i>same acts</i> ) .....	1, 800. 00	
(57)	Two charwomen, at \$300 each ( <i>same acts</i> ) .....	600. 00	
(58)	Seven charwomen, at \$240 each ( <i>same acts</i> ) .....	1, 680. 00	
		\$658, 790. 00	\$553, 150. 00
Appropriations for 1911..... \$115,920      Estimates for 1912..... \$494,070 Appropriations for 1912..... 347,450      Estimates for 1913..... 360,430 Appropriations for 1913..... 352,450      Estimates for 1914..... 361,500 Appropriations for 1914..... 359,250      Estimates for 1915..... 352,410 Appropriations for 1915..... 347,030      Estimates for 1916..... 353,630 Appropriations for 1916..... 353,830      Estimates for 1917..... 398,470 Appropriations for 1917..... 398,470      Estimates for 1918..... 446,970 Appropriations for 1918..... 440,370      Estimates for 1919..... 479,710 Appropriations for 1919..... 479,710      Estimates for 1920..... 554,720 Appropriations for 1920..... 553,150      Estimates for 1921..... 658,790			





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
NOTE.—Apparent increase, \$105,640; no actual increase, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 executive clerk, from inspection and quarantine ..... \$2,000 3 clerks, class 4, 2 from dairy industry, and 1 from meat inspection. 5,400 1 clerk, class 3, from diseases of animals..... 1,600 4 clerks, at \$1,500 each, 1 from inspection and quarantine, 1 from dairy industry, 1 from eradicating hog cholera, and 1 from meat inspection..... 6,000 2 clerks, class 2, 1 from eradicating hog cholera and 1 from meat inspection..... 2,800 1 clerk, from meat inspection..... 1,380 1 clerk, from eradicating cattle ticks..... 1,320 1 clerk, from meat inspection..... 1,260 41 clerks, class 1, 1 from inspection and quarantine, 8 from tuberculosis eradication, 5 from eradicating cattle ticks, 2 from dairy industry, 2 from eradicating hog cholera, 2 from dourine eradication, and 21 from meat inspection..... 49,200 11 clerks, at \$1,100 each, 1 from inspection and quarantine, 1 from eradicating cattle ticks, 1 from tuberculosis eradication, 4 from animal husbandry, 3 from eradicating hog cholera, and 1 from meat inspection..... 12,100 4 clerks, at \$1,080 each, 1 from inspection and quarantine and 3 from tuberculosis eradication..... 4,320 1 clerk, from eradicating hog cholera..... 1,020 7 clerks, at \$1,000 each, 3 from tuberculosis eradication, 2 from dairy industry, and 2 from eradicating hog cholera..... 7,000 1 skilled laborer, from abortion of animals..... 1,200 1 skilled laborer, from tuberculosis eradication..... 1,000 1 skilled laborer, from dairy industry..... 900 2 messengers or laborers, at \$840 each, 1 from dairy industry and 1 from animal husbandry..... 1,680 1 messenger boy, from tuberculosis eradication..... 660 9 messenger boys, at \$480 each, 1 from inspection and quarantine, 2 from tuberculosis eradication, 1 from dairy industry, 1 from animal husbandry, 1 from diseases of animals, 1 from abortion of animals, 1 from eradicating hog cholera, and 1 from meat inspection..... 4,320 1 charwoman, from meat inspection..... 480 Apparent increase..... 105,640		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p><i>General Expenses, Bureau of Animal Industry—</i></p> <p>(59) For carrying out the provisions of the act approved May 29, 1884, establishing a Bureau of Animal Industry, and the provisions of the act approved March 3, 1891, providing for the safe transport and humane treatment of export cattle from the United States to foreign countries, and for other purposes; the act approved August 30, 1890, providing for the importation of animals into the United States, and for other purposes; and the provisions of the act of May 9, 1902, extending the inspection of meats to process butter, and providing for the inspection of factories, marking of packages, and so forth; and the provisions of the act approved February 2, 1903, to enable the Secretary of Agriculture to more effectually suppress and prevent the spread of contagious and infectious diseases of live stock, and for other purposes; and also the provisions of the act approved March 3, 1905, to enable the Secretary of Agriculture to establish and maintain quarantine districts, to permit and regulate the movement of cattle and other live stock therefrom, and for other purposes; and for carrying out the provisions of the act of June 29, 1906, entitled "An act to prevent cruelty to animals while in transit by railroad or other means of transportation;" and for carrying out the provisions of the act approved March 4, 1913, regulating the preparation, sale, barter, exchange, or shipment of any virus, serum, toxin, or analogous products manufactured in the United States, and the importation of such products intended for use in the treatment of domestic animals; and to enable the Secretary of Agriculture to collect and disseminate information concerning live stock, dairy, and other animal products; to prepare and disseminate reports on animal industry; to employ and pay from the appropriation herein made as many persons in the city of Washington or elsewhere as he may deem necessary; to purchase in the open market samples of all tuberculin, serums, antitoxins, or analogous products, of foreign or domestic manufacture, which are sold in the United States, for the detection, prevention, treatment, or cure of diseases of domestic animals, to test the same, and to disseminate the results of said tests in such manner as he may deem best; to purchase and destroy diseased or exposed animals or quarantine the same whenever in his judgment essential to prevent the spread of pleuropneumonia, tuberculosis, or other diseases of animals from one State to another, as follows (<i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1</i>):</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.	
<i>General Expenses, Bureau of Animal Industry—Continued.</i>			
(60) For inspection and quarantine work, including all necessary expenses for the eradication of scabies in sheep and cattle, the inspection of southern cattle, the supervision of the transportation of live stock and the inspection of vessels, the execution of the 28-hour law, the inspection and quarantine of imported animals, including the establishment and maintenance of quarantine stations and repairs, alterations, improvements, or additions to buildings thereon; the inspection work relative to the existence of contagious diseases, and the mallein testing of animals [ \$525,000 ] (acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1) -----	\$557, 660. 00		
Appropriation for 1911.....	\$623,000	Estimate for 1912.....	\$592,700
Appropriation for 1912.....	592,700	Estimate for 1913.....	592,700
Appropriation for 1913.....	600,000	Estimate for 1914.....	654,000
Appropriation for 1914.....	654,000	Estimate for 1915.....	640,520
Appropriation for 1915.....	625,520	Estimate for 1916.....	607,780
Appropriation for 1916.....	607,780	Estimate for 1917.....	607,780
Appropriation for 1917.....	532,780	Estimate for 1918.....	603,280
Appropriation for 1918.....	628,280	Estimate for 1919.....	683,550
Appropriation for 1919.....	593,662	Estimate for 1920.....	495,282
Appropriation for 1920.....	525,000	Estimate for 1921.....	557,660
<p>NOTE.—There is an apparent increase in the above item of \$32,660, but taking into consideration transfers to the statutory roll aggregating \$7,360, the actual increase is \$40,020, which it is proposed to expend as follows:</p> <p>(a) \$10,000 for the eradication of mange (scabies) in cattle and horses, a serious disease occurring in new areas in certain western and southwestern States. Prompt steps should be taken to prevent further spread of the infection and, if possible, effect its eradication in the areas where the disease now prevails. The increase requested will be used to extend the bureau's activities in this direction.</p> <p>(b) \$25,000 in connection with the supervision of the interstate transportation of live stock. There has been a tremendous increase in the volume of work that must be performed under this project. The immunization of swine under Federal supervision for interstate movement from public stockyards during the fiscal year 1919 was 141 per cent greater than during the preceding year. As this work requires very close supervision, it is a large item of additional expense. Furthermore, as all swine so immunized must be shipped in cars or other vehicles disinfected under department supervision, the time of numerous employees is necessarily devoted to that detail. The number of points at which inspection has been inaugurated has been increased, but the demand from State officers and other interested parties for Federal inspection and supervision has been greater than the department has been able to meet. In the case of this project, as well as that relating to scabies, the cost of transportation and subsistence has greatly increased, and it has also been necessary to pay higher salaries to veterinary and lay inspectors, of whom a considerable number must be employed to carry on this work.</p> <p>(c) \$3,020 for the supervision of the importation of animal by-products (including hides), forage, etc.</p> <p>(d) \$2,000 for inspection and testing of animals for export.</p> <p>The work under both of the foregoing projects is constantly increasing. In recent months there has been an unusual demand for the services of bureau inspectors to test animals for export and to inspect the vessels carrying such animals.</p>			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>		
Chief, quarantine division....per annum..	\$3,500.00	1	1		
Veterinary inspector.....do.....	3,500.00	1	1		
Veterinary inspector.....do.....	3,000.00	1	..		
Veterinary inspectors.....do.....	2,820.00	..	2 (pt. time)		
Veterinary inspectors.....do.....	2,760.00	..	5 (1 pt. time)		
Veterinary inspectors.....do.....	2,640.00	..	2 (pt. time)		
Veterinary inspectors.....do.....	2,500.00	3	2 (1 pt. time)		
Veterinary inspectors.....do.....	2,460.00	1	2 (1 pt. time)		
Veterinary inspectors.....do.....	2,440.00	1	2 (1 pt. time)		
Veterinary inspector.....do.....	2,400.00	1	1		
Veterinary inspectors.....do.....	2,340.00	2	1		
Veterinary inspector.....do.....	2,320.00	1	1		
Veterinary inspectors.....do.....	2,250.00	1	2 (1 pt. time)		
Veterinary inspectors.....do.....	2,220.00	2	2		
Veterinary inspector.....do.....	2,160.00	1	..		
Veterinary inspector.....do.....	2,100.00	1	..		
Veterinary inspectors.....do.....	2,040.00	6	3 (1 pt. time)		
Veterinary inspector.....do.....	2,000.00	1	1		
Veterinary inspectors.....do.....	1,920.00	38	1		
Veterinary inspectors.....do.....	1,800.00	30 (5 new)	38 (2 pt. time)		
Veterinary inspectors.....do.....	1,740.00	3	4		
Veterinary inspectors.....do.....	1,700.00	2	..		
Veterinary inspectors.....do.....	1,620.00	16 (9 new)	7 (4 pt. time)		
Veterinary inspectors.....do.....	1,600.00	4	5		
Veterinary inspectors.....do.....	1,500.00	24	23 (1 pt. time)		
Veterinary inspectors and agents—					
\$12 to \$5.....per diem.....		3	3		
Senior biochemist.....per annum.....	3,240.00	1	..		
Senior biochemist.....do.....	3,000.00	..	1		
Assistant chief, quarantine division.....do.....	2,760.00	1	1		
Laboratory mechanician.....do.....	2,200.00	..	1 (pt. time)		
Senior bacteriologist.....do.....	2,160.00	1	1		
Senior bacteriologist.....do.....	1,980.00	..	1 (pt. time)		
Lay inspector, grade 2.....do.....	2,040.00	..	1 (pt. time)		
Lay inspectors, grade 2.....do.....	1,920.00	..	3 (2 pt. time)		
Lay inspector, grade 2.....do.....	1,600.00	..	1		
Lay inspector, grade 2.....do.....	1,400.00	1	1		
Lay inspectors, grade 2.....do.....	1,380.00	21	14 (11 pt. time)		
Lay inspector, grade 2.....do.....	1,320.00	1	..		
Lay inspectors, grade 2.....do.....	1,200.00	45	52 (7 pt. time)		
Lay inspectors, grade 2.....do.....	1,000.00	..	3 (1 pt. time)		
Lay inspector, grade 1.....do.....	1,860.00	..	1		
Lay inspector, grade 1.....do.....	1,800.00	..	1		
Lay inspectors, grade 1.....do.....	1,260.00	2	..		
Lay inspectors, grade 1.....do.....	1,200.00	9	1		
Lay inspectors, grade 1.....do.....	1,140.00	10	9 (1 pt. time)		
Lay inspectors, grade 1.....do.....	1,080.00	1	22 (7 pt. time)		
Special agent.....do.....	2,000.00	..	1 (pt. time)		
Assistant in biochemistry.....do.....	1,920.00	..	1		
Agent.....do.....	1,840.00	..	1		
Agents.....do.....	1,390.00	..	5		
Agents.....do.....	1,200.00	..	4		
Agents.....do.....	1,000.00	4	..		
Inspector's assistants and live-stock agent.....do.....	1,800.00	1	1		
Inspector's assistant and live-stock agents.....do.....	1,400.00	1	3		
Animal husbandman.....do.....	1,800.00	1	1		
Live-stock inspector.....do.....	1,400.00	..	1		
Labratery assistant.....do.....	1,140.00	..	1 (pt. time)		
Assistant, microscopist and messenger boy, \$840 to \$480.....do.....		1	3		
Executive clerk.....do.....	2,000.00	..	1		
Clerk.....do.....	1,500.00	..	1		
Clerk.....do.....	1,400.00	..	1		
Clerks.....do.....	1,200.00	..	4		
Clerk.....do.....	1,100.00	..	1		
Clerks.....do.....	1,080.00	..	2		
<b>Wages:</b>					
Laborer.....do.....	900.00	..	1		
Miscellaneous temporary labor—\$4.50 to \$2.....per diem.....		7	8		
		252	265		
Salaries.....		\$391,290.00	\$354,096.53		
Wages.....		5,000.00	6,625.00		
<b>Other objects of expenditure:</b>					
Stationery.....		1,500.00	1,449.56		
Traveling expenses.....		131,000.00	76,714.88		
Equipment and material.....		10,500.00	10,434.85		
Telephone and telegraph service.....		1,800.00	1,754.21		
Miscellaneous items.....		16,570.00	13,521.77		
<b>Total.....</b>		<b>557,660.00</b>	<b>464,596.80</b>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>		
<p>(61) For investigating the disease of tuberculosis of animals, for its control and eradication, for the tuberculin testing of animals, and for researches concerning the cause of the disease, its modes of spread, and methods of treatment and prevention, including demonstrations, the formation of organizations, and such other means as may be necessary, either independently or in cooperation with farmers, associations, State, Territory, or county authorities, <b>["\$1,500,000"] \$1,480,440</b> <b>["</b>, of which \$500,000 shall be set aside for administrative and operating expenses and \$1,000,000 for the payment of indemnities<b>"]</b>: <i>Provided, however,</i> That in carrying out the purpose of this appropriation, if in the opinion of the Secretary of Agriculture, it shall be necessary to destroy tuberculous animals and to compensate owners for loss thereof, he may, in his discretion, and in accordance with such rules and regulations as he may prescribe, expend in the city of Washington or elsewhere out of the moneys of this appropriation, such sums as he shall determine to be necessary <b>["</b>, within the limitations above provided,<b>"]</b> for the reimbursement of owners of animals so destroyed, in cooperation with such States, Territories, counties, or municipalities, as shall by law or by suitable action in keeping with its authority in the matter, and by rules and regulations adopted and enforced in pursuance thereof, provide inspection of tuberculous animals and for compensation to owners of animals so destroyed, but no part of the money hereby appropriated shall be used in compensating owners of such animals except in cooperation with and supplementary to payments to be made by State, Territory, county, or municipality where condemnation of such animals shall take place; nor shall any payment be made hereunder as compensation for or on account of any such animal destroyed if at the time of inspection or test of such animal, or at the time of condemnation thereof, it shall belong to or be upon the premises of any person, firm, or corporation, to which it has been sold, shipped, or delivered for the purpose of being slaughtered: <i>Provided further,</i> That out of the money hereby appropriated, no payment as compensation for any tuberculous animal destroyed shall exceed one-third of the difference between the appraised value of such animal and the value of the salvage thereof; that no payment hereunder shall exceed the amount paid or to be paid by the State, Territory, county, or municipality, where the animal shall be condemned; and that in no case shall any payment hereunder be more than \$25 for any grade animal or more than \$50 for any pure-bred animal, and no payment shall be made unless the owner has complied with all lawful quarantine regulations: <i>And provided further,</i> That the Act approved May 29, 1884 (Twenty-third Statutes at Large, page 31), be, and the same is hereby, amended to permit <i>hereafter</i> cattle which have reacted to the tuberculin test to be shipped, transported, or moved from one State, Territory, or the District of Columbia, to any other State, Territory, or the District of Columbia, for immediate slaughter, in accordance with such rules and regulations as shall be prescribed by the Secretary of Agriculture: <i>And provided further,</i> That the Secretary of Agriculture may, in his discretion, and under such rules and regulations as he may prescribe, permit cattle which have</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Animal Industry—Continued.*

been shipped for breeding or feeding purposes from one State, Territory, or the District of Columbia, to another State, Territory, or the District of Columbia, and which have reacted to the tuberculin test subsequent to such shipment, to be reshipped in interstate commerce to the original owner (*acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1*)—\$1,480,440.00

Appropriation for 1919.....	\$500,000	Estimate for 1920.....	\$493,520
Appropriation for 1920.....	1,500,000	Estimate for 1921.....	1,480,440

NOTE.—There is a decrease in the above item of \$19,560 due to transfers to the statutory roll.

It is proposed to amend the language of this paragraph as follows:

(1) By omitting the clause "of which \$500,000 shall be set aside for administrative and operating expenses and \$1,000,000 for the payment of indemnities." At each of the bureau stations are held a large number of agreements signed by owners of pure-bred herds of cattle who are desirous of placing them under supervision so that they may be accredited in accordance with the uniform plan adopted by the United States Live Stock Sanitary Association and approved by the department. Some of these owners are required to wait several weeks before inspectors are available to test their herds, because of the insufficient number of inspectors furnished by the department and the respective States. Live-stock owners recognize in the accredited herd plan a feasible method of freeing their cattle from tuberculosis and establishing that fact so that prospective buyers may know where they may obtain healthy cattle. The fact that, under the paragraph as now drawn, the department is restricted to the use of only \$500,000 of the total appropriation of \$1,500,000 for administrative and operating expenses, while \$1,000,000 is set aside specifically for the payment of indemnities, is in large measure responsible for the inability of the department to meet the demands of herd owners and to furnish the cooperation anticipated when the work was started. It is only necessary to point out that during the month of July, 1919, the department expended approximately \$35,000 for salaries and expenses and only \$7,000 for indemnities to show how the department is hampered by the restrictions placed on the expenditure of this appropriation. While it is probable that the indemnity for subsequent months will increase over that for July, in any event it will not approximate the amount provided by Congress.

(2) By omitting in the first proviso the clause in brackets, "within the limitations above provided." This change will necessarily have to be made if the first amendment is approved.

(3) By inserting in the third proviso the word "hereafter" after the word "permit". This is done in order to make legislation permanent and thus obviate the necessity of repeating the language from year to year.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Superintendent, experiment station.....per annum..	\$3,500.00	..	1 (pt. time)
Chief, tuberculosis eradication division.....do....	3,240.00	1	1
Senior biochemist.....do....	3,240.00	1	..
Senior bacteriologist.....do....	2,820.00	..	1 (pt. time)
Assistant superintendent, experiment station.....do....	2,760.00	..	1 (pt. time)
Assistant chemist.....do....	2,700.00	..	1 (pt. time)
Assistant chemist.....do....	2,400.00	..	1 (pt. time)
Veterinary inspector.....do....	2,700.00	1	1
Veterinary inspectors.....do....	2,640.00	1	3
Veterinary inspector.....do....	2,460.00	..	1
Veterinary inspectors.....do....	2,400.00	2	1
Physiologist.....do....	2,360.00	1	..
Veterinary inspector.....do....	2,340.00	1	..
Veterinary inspector.....do....	2,280.00	1	..
Veterinary inspectors.....do....	2,220.00	..	4





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries—Continued.		Number.	Number.		
Veterinary inspectors.....per annum..	\$2,160.00	2	2		
Veterinary inspector.....do.....	2,100.00	1	1		
Veterinary inspectors.....do.....	2,040.00	7	8(2 pt.time)		
Veterinary inspectors.....do.....	2,020.00	2	..		
Veterinary inspector.....do.....	2,000.00	..	1		
Veterinary inspectors.....do.....	1,920.00	19	4		
Veterinary inspectors.....do.....	1,900.00	..	1 (pt.time)		
Veterinary inspector.....do.....	1,860.00	1	..		
Veterinary inspectors.....do.....	1,800.00	42 (40 new)	23 (3pt.time)		
Veterinary inspectors.....do.....	1,740.00	45 (40 new)	8 (2pt.time)		
Veterinary inspector.....do.....	1,720.00	1	..		
Veterinary inspectors.....do.....	1,620.00	148(80 new)	13(8 pt.time)		
Veterinary inspectors.....do.....	1,600.00	3	6(1 pt.time)		
Veterinary inspectors.....do.....	1,500.00	53 (50 new)	92(19pt.time)		
Veterinary inspector.....do.....	1,200.00	1	1		
Assistant in biochemistry.....do.....	1,920.00	1	1		
Junior chemist.....do.....	1,440.00	..	1		
Laboratory assistant.....do.....	1,400.00	1	1		
Assistant in biochemie laboratory.....do.....	720.00	..	1		
Clerk.....do.....	1,800.00	..	1		
Clerks.....do.....	1,200.00	..	16 (5 temp.)		
Clerk.....do.....	1,100.00	..	1		
Clerks.....do.....	1,080.00	..	4		
Clerks.....do.....	1,000.00	..	3		
Messenger boys, \$660 and \$480.....do.....	..	..	3		
Lay inspectors, grade 2.....do.....	1,320.00	2	..		
Lay inspectors, grade 2.....do.....	1,200.00	..	3		
Lay inspector, grade 1.....do.....	1,040.00	1	..		
Lay inspector, grade 1.....do.....	1,080.00	..	2		
Assistant in biochemie laboratory.....do.....	720.00	..	1		
Clerks.....do.....	1,800.00	..	1		
Clerks.....do.....	1,200.00	..	16 (5 temp.)		
Clerks.....do.....	1,100.00	..	1		
Clerks.....do.....	1,080.00	..	4		
Clerks.....do.....	1,000.00	..	3		
Messenger boys, \$660 and \$480.....do.....	..	..	3		
Wages:					
Laborer.....do.....	1,460.00	1	..		
Laborer.....do.....	1,360.00	..	1 (temp.)		
Laborer.....do.....	1,000.00	..	1		
		340	215		
Salaries.....		\$956,460.00	\$269,339.42		
Wages.....		1,460.00	2,360.00		
Other objects of expenditure:					
Stationery.....		1,500.00	1,388.12		
Traveling expenses.....		125,000.00	90,514.40		
Equipment and material.....		30,000.00	27,361.24		
Telephone and telegraph service.....		1,000.00	621.12		
Miscellaneous items (includes indemnities).....		365,020.00	90,380.30		
Total.....		1,480,440.00	481,964.60		
(62) For all necessary expenses for the eradication of southern cattle ticks, [ \$741,980 ] \$731,160, of which sum \$50,000 may be used for live stock and dairy demonstration work, in cooperation with the States Relations Service, and of this amount no part shall be used in the purchase of animals: <i>Provided, however,</i> That no part of this appropriation shall be used in the purchase of materials for or in the construction of dipping vats upon land not owned solely by the United States, except at fairs or expositions where the Department of Agriculture makes exhibits or demonstrations; nor shall any part of this appropriation be used in the purchase of materials or mixtures for use in dipping vats except in experimental or demonstration work carried on by the officials or agents of the Bureau of Animal Industry ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1</i> ).....					\$731,160.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Animal Industry—Continued.*

Appropriation for 1911.....	\$250,000	Estimate for 1912.....	\$267,880
Appropriation for 1912.....	250,000	Estimate for 1913.....	250,000
Appropriation for 1913.....	250,000	Estimate for 1914.....	300,000
Appropriation for 1914.....	325,000	Estimate for 1915.....	400,000
Appropriation for 1915.....	400,000	Estimate for 1916.....	398,800
Appropriation for 1916.....	438,800	Estimate for 1917.....	657,400
Appropriation for 1917.....	632,400	Estimate for 1918.....	631,500
Appropriation for 1918.....	631,560	Estimate for 1919.....	620,420
Appropriation for 1919.....	750,000	Estimate for 1920.....	741,980
Appropriation for 1920.....	741,980	Estimate for 1921.....	731,160

NOTE.—There is a decrease in this item of \$10,820, due to transfers to the statutory roll of this bureau amounting to \$8,420 and the transfer of 1 assistant at \$2,400 to the statutory roll of the Division of Publications.

*Eradicating cattle ticks.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Veterinary inspector.....per annum..	\$3,500.00	1	..
Veterinary inspector.....do.....	2,880.00	..	1
Veterinary inspector.....do.....	2,820.00	..	1
Veterinary inspectors.....do.....	2,760.00	..	8(3pt. time)
Veterinary inspectors.....do.....	2,700.00	..	8
Veterinary inspector.....do.....	2,644.00	..	1
Veterinary inspector.....do.....	2,580.00	..	1
Veterinary inspectors.....do.....	2,500.00	4	1(pt. time)
Veterinary inspectors.....do.....	2,460.00	1	16(1 pt. time)
Veterinary inspectors.....do.....	2,440.00	..	9(2pt. time)
Veterinary inspectors.....do.....	2,400.00	3	1
Veterinary inspectors.....do.....	2,340.00	1	21 (13 part time)
Veterinary inspectors.....do.....	2,320.00	..	11(8 pt. time)
Veterinary inspectors.....do.....	2,280.00	..	2(1pt. time)
Veterinary inspector.....do.....	2,250.00	..	1
Veterinary inspectors.....do.....	2,220.00	..	11(2 pt. time)
Veterinary inspectors.....do.....	2,160.00	1	4(3 pt. time)
Veterinary inspectors.....do.....	2,100.00	2	2
Veterinary inspector.....do.....	2,040.00	1	1
Veterinary inspector.....do.....	2,000.00	1	..
Veterinary inspectors.....do.....	1,980.00	..	2(1 pt. time)
Veterinary inspectors.....do.....	1,920.00	30	5(2pt. time)
Veterinary inspectors.....do.....	1,860.00	4	..
Veterinary inspectors.....do.....	1,800.00	18	13 (11 part time)
Veterinary inspectors.....do.....	1,740.00	5	5(1 pt. time)
Veterinary inspectors.....do.....	1,720.00	2	..
Veterinary inspectors.....do.....	1,700.00	25	..
Veterinary inspectors.....do.....	1,680.00	..	3
Veterinary inspectors.....do.....	1,620.00	70	6
Veterinary inspectors.....do.....	1,600.00	4	2
Veterinary inspectors.....do.....	1,500.00	3	16(6pt. time)
Agents.....do.....	2,040.00	..	6
Agents.....do.....	1,920.00	1	41
Agents.....do.....	1,860.00	..	6(3 pt. time)
Agents.....do.....	1,840.00	..	4(2pt. time)
Agents.....do.....	1,800.00	..	9(6 pt. time)
Agents.....do.....	1,720.00	..	4
Agents.....do.....	1,680.00	1	6(5 pt. time)
Agents.....do.....	1,620.00	2	..
Agents.....do.....	1,570.00	..	1
Agents.....do.....	1,560.00	3	2
Agents.....do.....	1,500.00	1	1
Agents.....do.....	1,390.00	3	..
Agents.....do.....	1,200.00	101	14 (12 part time)
Agents.....do.....	1,140.00	3	2
Agents.....do.....	1,080.00	27	2
Agents.....do.....	1,020.00	5	..
Agents.....do.....	1,000.00	4	..
Agents, \$960 to \$12.....do.....	..	27	20
Executive clerk.....do.....	2,000.00	..	1
Clerk.....do.....	1,320.00	..	1
Clerks.....do.....	1,200.00	..	7
Clerks.....do.....	1,100.00	..	2
Clerks.....do.....	1,080.00	..	1
Clerk.....do.....	1,560.00	1	..
Junior chemist.....do.....	1,320.00	4	..
Lay inspectors.....do.....	1,200.00	3	1
Lay inspectors.....do.....	..	..	..
<b>Wages:</b>			
Laborers.....do.....	720.00	..	2
		362	285
Salaries.....		\$514,562.00	\$512,166.94
Wages.....			1,440.00
<b>Other objects of expenditure:</b>			
Stationery.....		1,500.00	1,793.69
Traveling expenses.....		142,600.00	125,519.86
Equipment and material.....		5,500.00	5,658.26
Telephone and telegraph service.....		1,200.00	1,103.53
Miscellaneous items.....		15,798.00	15,942.37
<b>Total.....</b>		<b>681,160.00</b>	<b>663,624.65</b>





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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General Expenses, Bureau of Animal Industry—Continued.

Live-stock demonstration.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Agent in animal husbandry .per annum..	\$2,750.00	1	..
Agent in animal husbandry ..do....	2,400.00	..	1
Agent in animal husbandry ..do....	2,000.00	1	..
Agent in animal husbandry ..do....	1,860.00	1	..
Agents in animal husbandry ..do....	1,800.00	3	..
Agents in animal husbandry ..do....	1,380.00	1	..
Scientific assistant in animal husbandry ..do....	2,400.00	1	..
Scientific assistant in animal husbandry ..do....	1,800.00	1	1
Scientific assistant in animal husbandry ..do....	1,380.00	1	..
Dairy manufacturing specialist ..do....	1,800.00	1	..
Extension animal husbandman ..do....	1,800.00	1	..
Extension animal husbandman ..do....	1,500.00	..	1
Animal husbandman ..do....	1,800.00	..	1
Agent in dairying ..do....	1,700.00	1	..
Dairy husbandman ..do....	1,620.00	1	1
Dairy husbandmen ..do....	1,500.00	..	3
Dairy husbandmen ..do....	1,480.00	..	2
Dairy husbandman ..do....	1,440.00	1	1
Dairy husbandman ..do....	1,320.00	..	1
Assistant dairy husbandman ..do....	1,320.00	..	1
Agent ..do....	1,620.00	..	1
Agent ..do....	1,580.00	..	1
Agents ..do....	1,500.00	..	2
Agent ..do....	1,380.00	1	..
Agent ..do....	1,320.00	1	1
Agent ..do....	1,250.00	..	1
Agent ..do....	1,200.00	1	1
Agent ..do....	1,180.00	1	..
Agent ..do....	1,000.00	..	1
Cheese maker ..do....	1,320.00	..	1
Agent, dairy husbandman, and assistant dairy husbandman, \$840 to \$360 ..do....		1	2
		20	24
Salaries ..do....		\$32,890.00	\$30,635.22
Other objects of expenditure:			
Traveling expenses ..do....		16,810.00	14,951.65
Miscellaneous items ..do....		300.00	284.23
Total ..do....		50,000.00	45,871.10

(63) For all necessary expenses for investigations and experiments in dairy industry, cooperative investigations of the dairy industry in the various States, inspection of renovated-butter factories and markets [§350,370] (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1)---\$390,800.00

Appropriation for 1911.....	\$147,600	Estimate for 1912.....	\$155,000
Appropriation for 1912.....	150,000	Estimate for 1913.....	177,900
Appropriation for 1913.....	177,900	Estimate for 1914.....	200,000
Appropriation for 1914.....	177,900	Estimate for 1915.....	256,490
Appropriation for 1915.....	256,490	Estimate for 1916.....	258,090
Appropriation for 1916.....	254,090	Estimate for 1917.....	272,470
Appropriation for 1917.....	277,470	Estimate for 1918.....	378,930
Appropriation for 1918.....	378,930	Estimate for 1919.....	364,390
Appropriation for 1919.....	364,390	Estimate for 1920.....	350,370
Appropriation for 1920.....	350,370	Estimate for 1921.....	390,800

NOTE.—There is an apparent increase in this item of \$40,430, but taking into consideration transfers to the statutory roll of this bureau aggregating \$11,720, the transfer of 1 draftsman or photographer at \$1,800 to the statutory roll of the Division of Publications, and the transfer of 1 skilled laborer at \$900 to the statutory roll of the Office of the Secretary, the actual increase is \$54,850. This amount is desired for the following purposes:



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>					
<p>(a) \$20,000 for dairy farming investigations and demonstrations, including an extension of the dairy demonstration work, in cooperation with the extension divisions of the State agricultural colleges; the promotion of bull associations in additional sections; enlargement of community development in dairying to demonstrate the practicability of building up a special industry through such effort; and provision for the increased cost of transportation, supplies, and travel.</p> <p>(b) \$29,850 for dairy research work, including extension of the investigation of butter and its by-products—casein, milk powder, albumin, milk sugar, etc.—experimental work in milk condensing, and researches on the nutrition of dairy cows; and provision for the increased cost of supplies and travel.</p> <p>(c) \$5,000 for extending the dairy farming demonstration work to three additional Western States, in cooperation with the extension divisions of the State colleges.</p>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Chief of dairy division.....per annum..	\$4,500.00	1	..		
Chief of dairy division.....do.....	4,000.00	..	1		
Assistant chief of dairy division.....do....	4,000.00	1	..		
Physiologist.....do.....	4,000.00	1 (new)	..		
Physiologist.....do.....	3,240.00	1	..		
Physiologist.....do.....	3,000.00	1	1		
Physiologists.....do.....	1,800.00	..	3 (pt. time)		
Dairy expert.....do.....	3,750.00	..	1		
Dairy bacteriologist.....do.....	3,500.00	1	..		
Dairy bacteriologist.....do.....	3,240.00	..	1		
Dairy bacteriologist.....do.....	2,700.00	1	1		
Dairy bacteriologist.....do.....	2,200.00	1	1		
Dairy bacteriologist.....do.....	2,000.00	1 (new)	..		
Dairy bacteriologist.....do.....	1,800.00	1	1		
Dairy chemist.....do.....	3,000.00	1	..		
Dairy chemist.....do.....	1,980.00	1	1		
Dairy chemist.....do.....	1,920.00	1	1		
Dairy chemist.....do.....	1,620.00	1	1		
Dairy husbandman.....do.....	3,000.00	1	..		
Dairy husbandman.....do.....	2,700.00	1	1		
Dairy husbandman.....do.....	2,520.00	1	1		
Dairy husbandmen.....do.....	2,500.00	2	1		
Dairy husbandmen.....do.....	2,400.00	2	2		
Dairy husbandmen.....do.....	2,340.00	1	2 (1 pt. time)		
Dairy husbandman.....do.....	2,280.00	1	1		
Dairy husbandman.....do.....	2,200.00	1	1		
Dairy husbandman.....do.....	2,160.00	1	1		
Dairy husbandmen.....do.....	2,100.00	2	3 (1 pt. time)		
Dairy husbandman.....do.....	2,000.00	1	1		
Dairy husbandman.....do.....	1,980.00	..	1		
Dairy husbandman.....do.....	1,800.00	1	1		
Dairy husbandman.....do.....	1,740.00	..	1		
Dairy husbandman.....do.....	1,650.00	1	1		
Dairy husbandmen.....do.....	1,620.00	2	..		
Dairy husbandmen.....do.....	1,600.00	2	..		
Dairy husbandmen.....do.....	1,500.00	26 (20 new)	5		
Dairy husbandman.....do.....	1,440.00	1	..		
Dairy husbandman.....do.....	1,400.00	..	1		
Dairy husbandman.....do.....	1,200.00	1	1		
Specialist in dairy cattle breeding.....do....	3,000.00	1	1 (pt. time)		
Market milk specialist.....do.....	2,880.00	1	..		
Market milk specialists.....do.....	2,640.00	1	2		
Market milk specialist.....do.....	2,400.00	1	..		
Market milk specialist.....do.....	2,220.00	..	1		
Market milk specialist.....do.....	2,040.00	1	1		
Market milk specialists.....do.....	1,980.00	2	2		
Assistant dairy manufacturing specialist.....do....	2,760.00	..	1		
Assistant dairy manufacturing specialist.....do....	1,620.00	1	..		
Assistant dairy manufacturing specialists.....do....	1,440.00	1	2		
Dairy technologist.....do.....	2,520.00	1	1		
Chemist.....do.....	2,500.00	1 (new)	..		
Chemists.....do.....	2,220.00	3 (1 new)	2		
Chemist.....do.....	2,000.00	1 (new)	..		
Chemist.....do.....	1,800.00	1	1		
Chemists.....do.....	1,440.00	3 (2 new)	1		
Dairy engineer.....do.....	2,220.00	1	1		
Veterinary inspector.....do.....	2,040.00	1	1		
Agent.....do.....	2,040.00	..	1		
Agent.....do.....	1,900.00	1	1		
Agents.....do.....	1,600.00	2	3		
Agent.....do.....	1,580.00	1	..		
Agents.....do.....	1,500.00	8	7		
Agent.....do.....	1,420.00	1	..		
Agent.....do.....	1,380.00	1	..		
Agents.....do.....	1,350.00	2	1		





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
General Expenses, Bureau of Animal Industry—Continued.					
Employees.		Rate.	Estimated, 1921.	Expended, 1919.	
			Number.	Number.	
Agents.....per annum..	\$1,320.00	2	2	2	
Agents.....do.....	1,300.00	1	1	1	
Agent.....do.....	1,260.00	1	1	1	
Agent.....do.....	1,250.00	..	..	1	
Agents.....do.....	1,200.00	3	3	6 (1 pt. time)	
Agent.....do.....	1,000.00	1	1	1	
Supervisor.....do.....	2,000.00	1 (new)	..	..	
Dairy editor.....do.....	2,000.00	1	..	..	
Assistant in cattle breeding.....do.....	2,000.00	1	1	1	
Dairy manufacturing specialists.....do.....	2,500.00	2 (new)	1	1	
Dairy manufacturing specialists.....do.....	2,460.00	2	2	2	
Dairy manufacturing specialists.....do.....	2,280.00	1	2	2	
Dairy manufacturing specialists.....do.....	2,220.00	2	4 (2 pt. time)	..	
Dairy manufacturing specialist.....do.....	2,100.00	1	1	1	
Dairy manufacturing specialist.....do.....	2,040.00	1	1	1	
Dairy manufacturing specialists.....do.....	2,000.00	2	2	2	
Dairy manufacturing specialists.....do.....	1,980.00	2	2	2	
Dairy manufacturing specialist.....do.....	1,920.00	1	1	1	
Dairy manufacturing specialists.....do.....	1,800.00	1	3	..	
Dairy manufacturing specialist.....do.....	1,740.00	1	1	1	
Dairy manufacturing specialists.....do.....	1,700.00	5 (new)	..	..	
Dairy manufacturing specialist.....do.....	1,620.00	1	1	1	
Dairy manufacturing specialists.....do.....	1,500.00	1	2 (1 pt. time)	..	
Assistant market milk specialists.....do.....	1,860.00	2	..	..	
Assistant market milk specialist.....do.....	1,800.00	1	..	..	
Assistant market milk specialists.....do.....	1,740.00	1	3	..	
Assistant market milk specialist.....do.....	1,620.00	1	1	1	
Assistant market milk specialist.....do.....	1,520.00	1	..	..	
Assistant market milk specialists.....do.....	1,500.00	..	3 (1 pt. time)	..	
Assistant market milk specialist.....do.....	1,440.00	1	1	1	
Assistant in dairy manufacturing.....do.....	1,680.00	1	1	1	
Cheesemaker.....do.....	1,620.00	1	1	1	
Cheesemaker.....do.....	1,320.00	1	..	..	
Bacteriologist.....do.....	1,500.00	1	1	1	
Assistant dairy husbandman.....do.....	1,500.00	1	1	1	
Scientific assistant in dairying.....do.....	1,500.00	1	1	1	
Scientific assistants in dairying.....do.....	1,400.00	..	2	2	
Scientific assistants in dairying.....do.....	1,320.00	2	2	2	
Scientific assistant in dairying.....do.....	1,200.00	1	..	..	
Senior dairy herdsman.....do.....	1,500.00	..	1	1	
Assistant dairy herdsman.....do.....	1,440.00	1 (new)	..	..	
Junior bacteriologist.....do.....	1,200.00	1	1	1	
Lay inspector, grade 2.....do.....	1,200.00	..	1	1	
Junior herdsman.....do.....	1,200.00	1	..	..	
Specialist in animal nutrition.....do.....	1,000.00	1	1	1	
Assistants in animal nutrition.....do.....	1,000.00	2	2	2	
Agents, student assistant and collaborator, \$984 to \$120.....do.....	..	9	10	1	
Dairy expert.....per diem.....	10.00	..	1	..	
Cost accountant.....per annum.....	2,000.00	1 (new)	..	..	
Clerks.....do.....	1,800.00	..	2	2	
Clerk.....do.....	1,500.00	..	1	1	
Clerks.....do.....	1,400.00	..	2	2	
Clerks.....do.....	1,200.00	1 (new)	9	1	
Clerk.....do.....	1,080.00	..	1	1	
Clerk.....do.....	1,020.00	..	1	2	
Clerks.....do.....	1,000.00	..	2	..	
Messenger and messenger boy, \$840 to \$480.....do.....	..	..	2	..	
Wages:					
Laborers, \$900 to \$720.....do.....	..	6 (new)	2	..	
Miscellaneous temporary labor.....per diem.....	\$4.50 to \$2	13	15	1	
labor.....per month.....	70.00	..	1	..	
		181	175		
Salaries.....		\$269,614.00	\$246,921.26		
Wages.....		18,139.00	13,586.25		
Other objects of expenditure:					
Stationery.....		3,000.00	2,518.22		
Traveling expenses.....		50,000.00	45,511.21		
Equipment and materials.....		15,000.00	13,374.46		
Telephone and telegraph service.....		1,000.00	772.36		
Miscellaneous items.....		134,047.00	32,264.81		
Total.....		390,800.00	354,948.67		

<sup>1</sup> Includes purchase of cattle and feed





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>		
(64) For all necessary expenses for investigations and experiments in animal husbandry; for experiments in animal feeding and breeding, including cooperation with the State agricultural experiment stations, including repairs and additions to and erection of buildings absolutely necessary to carry on the experiments, including the employment of labor in the city of Washington and elsewhere, rent outside of the District of Columbia, and all other necessary expenses, <b>["\$327,680"] \$519,040: Provided</b> , That of the sum thus appropriated \$36,940 may be used for experiments in the breeding and maintenance of horses for military purposes: <i>Provided further</i> , That of the sum thus appropriated \$58,640 may be used for experiments in poultry feeding and breeding: <i>Provided further</i> , That of the sum thus appropriated <b>["\$8,000"] \$12,000</b> may be used for the equipment of the United States sheep experiment station in Fremont County, Idaho, including repairs and additions to and the erection of necessary buildings to furnish facilities for the investigation of problems pertaining to the sheep and wool industry on the farms and ranges of the Western States ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1</i> )-----	\$519,040.00	
Appropriation for 1911..... \$42,000 Appropriation for 1912..... 47,480 Appropriation for 1913..... 47,480 Appropriation for 1914..... 52,180 Appropriation for 1915..... 182,840 Appropriation for 1916..... 189,060 Appropriation for 1917..... 208,320 Appropriation for 1918..... 262,580 Appropriation for 1919..... 308,680 Appropriation for 1920..... 327,680	Estimate for 1912..... \$55,480 Estimate for 1913..... 47,480 Estimate for 1914..... 52,180 Estimate for 1915..... 197,840 Estimate for 1916..... 223,460 Estimate for 1917..... 208,320 Estimate for 1918..... 277,580 Estimate for 1919..... 308,680 Estimate for 1920..... 316,960 Estimate for 1921..... 519,040	

NOTE.—There is an apparent increase in the above item of \$191,360, but taking into consideration transfers to the statutory roll of this bureau aggregating \$5,720 and the transfer of 1 assistant at \$2,200 to the statutory roll of the Division of Publications, the actual increase is \$199,280. It is proposed to expend this sum as follows:

(a) \$75,000 for the encouragement of live-stock production in the Great Plains and intermountain regions. A great deal of research and educational work must be done before the problems of the dry-land farmer can be solved. Certain crops may produce abundantly during a year of more than average rainfall, but interspersed between these years are likely to be considerable periods when rainfall is lacking and many crops do not mature. During such periods farmers may find themselves without feed for their horses and cattle and without food for their families. There have been sufficient cases of successful operation of dry-land farms to demonstrate that success in agriculture in these regions is possible, and the consensus of opinion, based upon a number of years of careful investigation, is that dry-land farms must be developed with live stock as the mainstay. If the funds requested are made available, it is planned to begin a systematic campaign in cooperation with the State agricultural colleges to place the farms of the Great Plains and the intermountain regions on a stable basis. The additional amount recommended will provide for the employment of about 25 animal husbandmen.

(b) \$37,000 to meet the demands for the investigation of problems in beef production developing at the present time. The bureau now has experiment stations at Beltsville, Md.; Lewisburg, W. Va.; Canton and McNeill, Miss.; Springdale, N. C.; Manhattan, Kans.; Jonesboro, Ark.; and Indiantown, Fla., the work at all except those at Beltsville and Indiantown being conducted in cooperation with State experiment stations. With the increase suggested it is proposed to transfer the work at Canton to McNeill and the work at Beltsville to a point in





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Animal Industry—Continued.*

the corn belt; to begin the study of beef production in New England by establishing a herd of dual-purpose cattle at the Morgan Horse Farms, Middlebury, Vt.; and to inaugurate a study of beef production on northern cut-over lands in Michigan, Wisconsin, or Minnesota.

(c) \$82,280 for range sheep investigations. Of this amount \$45,000 is desired for the purchase of approximately 300 acres of irrigated land as an addition to the United States sheep experiment station at Dubois, Idaho. This recommendation is made for reasons of economy and to insure the satisfactory operation of the station. It is believed that the investment would pay for itself in three years on the item of feed alone based on the prevailing prices in Idaho. It is proposed to use the remaining \$37,280 in connection with the work at the sheep experiment station as follows:

Construction of buildings (horse barn, lambing shed, granary, and cottage).....	\$4,000
Automobile for use of superintendent.....	600
Construction of fences.....	4,000
Hay.....	20,000
Grain.....	3,680
Labor.....	5,000

With the acquisition of the additional land and its utilization for feed production, the \$20,000 item for hay will be no longer necessary.

During the fiscal year 1919 the proceeds of sales from this station amounted to \$9,000, which were covered into the Treasury. For the year 1920 it is estimated that sales will yield approximately \$20,000. With the station in full operation, on the basis of 4,000 ewes, it is expected that annual receipts will be over \$30,000. A 4,000-ewe flock is the smallest number that can be used to secure the most economical management of the station and to permit experiments on a sufficiently large scale to give results of unquestioned practical value in general commercial range sheep production.

(d) \$5,000 for animal husbandry work at the Beltsville, Md., experiment farm. This additional amount is needed to cover the increased cost of labor, seed, and miscellaneous supplies and materials of all kinds required for the work on the farm. The allotment for this purpose has not been increased for several years, and the experimental work is seriously handicapped because of insufficient funds for its prosecution. Additional implements and machinery are needed, and the services of a blacksmith, a painter, and a practical mechanic are necessary in caring for the present buildings and equipment.

*Animal husbandry.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
		<i>Number.</i>	<i>Number.</i>
Salaries:			
Chief, animal husbandry division.....per annum..	\$1,000.00	1	1
Live-stock specialist.....do....	4,000.00	1	..
Animal husbandman.....do....	3,360.00	1	..
Animal husbandman.....do....	2,220.00	1	..
Animal husbandman.....do....	2,100.00	..	1
Animal husbandman.....do....	2,040.00	1	1
Animal husbandman.....do....	2,000.00	1	..
Animal husbandman.....do....	1,920.00	1	..
Animal husbandmen.....do....	1,800.00	3	2 (1pt.time)
Animal husbandman.....do....	1,740.00	..	1
Animal husbandman.....do....	1,620.00	1	1
Animal husbandman.....do....	1,500.00	1	1
Animal husbandman.....do....	1,380.00	..	1
Specialist in swine husbandry.....do....	3,250.00	1	..
Senior animal husbandman.....do....	3,240.00	1	1
Senior animal husbandman.....do....	2,750.00	1	..
Senior animal husbandman.....do....	2,340.00	..	1
Senior animal husbandman.....do....	2,160.00	1	1
Senior animal husbandman.....do....	2,000.00	1	..
Extension animal husbandman.....do....	2,500.00	1	..
Extension animal husbandman.....do....	2,200.00	1	..
Extension animal husbandmen.....do....	2,000.00	1	2 (1pt.time)
Extension animal husbandmen.....do....	1,800.00	3	2 (pt. time)
Extension animal husbandmen.....do....	1,500.00	3	6 (3pt.time)
Extension swine husbandman.....do....	2,400.00	1	..
Extension swine husbandman.....do....	2,000.00	5 (new)	..
Agents in animal husbandry.....do....	2,400.00	2	..
Agent in animal husbandry.....do....	2,200.00	1	..
Agent in animal husbandry.....do....	2,100.00	1	..
Agents in animal husbandry.....do....	2,000.00	1	2 (pt. time)
Agents in animal husbandry.....do....	1,800.00	6	6 (5pt.time)
Agent in animal husbandry.....do....	1,380.00	1	..
Agents in animal husbandry.....do....	1,200.00	3	..
Agent in animal husbandry.....do....	1,100.00	..	1



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>					
<i>Animal husbandry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<i>Salaries—Continued.</i>					
Sheep husbandman..... per annum..	\$2,000.00	1 (new)	..		
Live stock assistant..... do.....	1,920.00	1	1 (pt. time)		
Agents..... do.....	1,740.00	1	1		
Agents..... do.....	1,500.00	4	4 (2pt. time)		
Agents..... per diem..	8.00	..	1		
Junior animal husbandmen..... per annum..	1,740.00	1	1		
Scientific assistant in animal husbandry..... do.....	1,740.00	1	..		
Scientific assistant in animal husbandry..... do.....	1,650.00	1	1		
Scientific assistants in animal husbandry..... do.....	1,620.00	1	2		
Scientific assistants in animal husbandry..... do.....	1,500.00	5	4 (2pt. time)		
Scientific assistant in animal husbandry..... do.....	1,380.00	3	6 (4pt. time)		
Assistant in animal husbandry..... do.....	1,440.00	1	..		
Assistant in animal husbandry..... do.....	1,380.00	1	..		
Expert groom..... do.....	1,380.00	1	..		
Expert groom..... do.....	1,260.00	..	1		
Assistant in horse breeding..... do.....	1,200.00	1	1		
Sheep herder..... per month..	100.00	1	..		
Clerk..... per annum..	1,400.00	..	1		
Clerks..... do.....	1,200.00	..	5 (3 temp.)		
Clerks..... do.....	1,100.00	..	6 (1 temp.)		
Agent and messengers, \$840 to \$480. do.....	..	1	3		
<i>Wages:</i>					
Teamster..... do.....	1,080.00	1	1		
Laborer..... do.....	1,200.00	1	1		
Laborer..... do.....	1,000.00	..	1		
Miscellaneous temporary labor—					
\$900 to \$420..... do.....	..	14	7		
\$70 to \$60..... per month..	..	2	1		
\$7 to \$2.40..... per diem..	..	17 (4 new)	17		
		101	99		
Salaries.....		\$156,900.00	\$99,734.11		
Wages.....		24,206.00	4,540.00		
<i>Other objects of expenditure:</i>					
Stationery.....		5,000.00	2,510.76		
Traveling expenses.....		19,000.00	14,913.76		
Equipment and material.....		138,540.00	9,143.05		
Telephone and telegraph service.....		1,000.00	722.24		
Miscellaneous items.....		70,814.00	61,032.63		
Total.....		415,460.00	192,596.55		
<i>Military horse breeding.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<i>Salaries:</i>					
Veterinary inspector..... per annum..	\$2,040.00	Number.	Number.		
Animal husbandman..... do.....	2,000.00	1	1		
Extension animal husbandman..... do.....	2,000.00	1	1		
Foremen in horse breeding..... do.....	900.00	3	3		
<i>Wages:</i>					
Laborers..... do.....	1,500.00	..	2		
Laborers..... do.....	1,320.00	..	2		
Laborers..... do.....	1,200.00	..	3		
Miscellaneous temporary labor—					
\$900 to \$300..... do.....	..	11	9		
		17	22		
Salaries.....		\$8,740.00	\$8,740.00		
Wages.....		7,008.00	6,277.42		
<i>Other objects of expenditure:</i>					
Traveling expenses.....		3,000.00	2,578.02		
Equipment and material.....		1,000.00	1,060.58		
Miscellaneous items.....		17,192.00	16,320.41		
Total.....		36,940.00	34,976.43		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>					
<i>Poultry feeding and breeding.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Senior poultryman.....per annum..	\$3,600.00	1			
Senior animal husbandman.....do....	2,760.00	1	1 (pt. time)		
Extension poultry husbandman.....do....	2,200.00	1	1 (pt. time)		
Extension poultry husbandmen.....do....	1,740.00	2	1		
Extension poultry husbandmen.....do....	1,620.00	2	1		
Extension poultry husbandmen.....do....	1,500.00	4	7 (6pt. time)		
Extension poultry husbandman.....do....	1,380.00	1	1 (pt. time)		
Poultryman.....do....	1,380.00	1			
Poultryman.....do....	1,920.00	1			
Animal husbandman.....do....	1,800.00		1		
Junior animal husbandman.....do....	1,740.00	1	1		
Junior poultry husbandman.....do....	1,620.00	1			
Poultry husbandman.....do....	1,620.00	1	2 (pt. time)		
Agent.....do....	1,500.00	1	4 (2pt. time)		
Scientific assistant in poultry husbandry.....do....	1,500.00	1			
Junior poultryman.....do....	1,380.00	1	1 (pt. time)		
Assistant in incubation and brooding.....do....	1,200.00		1		
Assistant poultry club agent.....do....	300.00		1		
Clerks.....do....	1,200.00		2		
Clerk.....do....	1,100.00		1 (temp.)		
Wages:					
Laborer.....do....	1,740.00		1		
Laborer.....per month..	125.00		1		
Miscellaneous temporary labor \$6.00.....per annum..			1		
\$4.50 to \$2.40.....per diem..		5			
		23	28		
Salaries.....		\$31,180.00	\$26,002.93		
Wages.....		2,820.00	4,050.00		
Other objects of expenditure:					
Traveling expenses.....		7,000.00	5,707.95		
Equipment and materials.....		7,640.00	5,764.52		
Miscellaneous items.....		10,000.00	6,986.26		
Total.....		58,640.00	48,511.66		
<i>Equipping sheep station.</i>					
Other objects of expenditure.		Estimated, 1921.	Expended, 1919.		
Equipment and material.....		\$12,000.00	\$7,946.38		
(65) For all necessary expenses for scientific investigations in diseases of animals, including the maintenance and improvement of the bureau experiment station at Bethesda, Maryland, and the necessary alterations of buildings thereon, and the necessary expenses for investigations of tuberculin, serums, antitoxins, and analogous products, <b>["\$124,560"]</b> <b>\$141,450: Provided, That of said sum <b>["\$49,400"]</b> \$47,720</b> may be used for researches concerning the cause, modes of spread, and methods of treatment and prevention of the disease of contagious abortion of animals ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1</i> ) .....					
Appropriation for 1911.....	\$108,000	Estimate for 1912.....	\$80,180		
Appropriation for 1912.....	78,680	Estimate for 1913.....	78,680		
Appropriation for 1913.....	78,680	Estimate for 1914.....	78,680		
Appropriation for 1914.....	78,680	Estimate for 1915.....	77,360		
Appropriation for 1915.....	77,360	Estimate for 1916.....	103,580		
Appropriation for 1916.....	85,940	Estimate for 1917.....	88,020		
Appropriation for 1917.....	138,020	Estimate for 1918.....	134,600		
Appropriation for 1918.....	134,600	Estimate for 1919.....	132,560		
Appropriation for 1919.....	124,560	Estimate for 1920.....	124,560		
Appropriation for 1920.....	124,560	Estimate for 1921.....	141,450		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																																																																																																								
<i>General Expenses, Bureau of Animal Industry—Continued.</i>																																																																																																																																																																																																										
NOTE.—There is an apparent increase in the above item of \$16,890, but taking into consideration transfers to the statutory roll amounting to \$3,760, the actual increase is \$20,650. It is proposed to use this additional amount in extending the work on the following projects, whose prosecution has been hampered because of inadequate funds: (a) \$15,000 for the investigation of roundworms of hogs. These parasites are responsible for losses among young pigs amounting to millions of dollars each year. (b) \$4,000 for developing and thoroughly testing a new method of blackleg immunization. This method gives promise of being a more effective agent against blackleg than the old powder form of vaccine. (c) \$1,650 to extend the investigations of stock poisoning by plants, in order to better understand the causes of the considerable losses of live stock on the western ranges from this source and to obviate these losses. The subitem for investigation of contagious abortion is decreased from \$49,400 to \$47,720 on account of transfers to the statutory roll.																																																																																																																																																																																																										
<i>Diseases of animals.</i>																																																																																																																																																																																																										
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Chief of zoological division . . . per annum . .</td><td>\$3,750.00</td><td><i>Number.</i> 1</td><td><i>Number.</i> ..</td></tr><tr><td>Chief of zoological division . . . . . do . . .</td><td>3,500.00</td><td>..</td><td>1</td></tr><tr><td>Superintendent of experiment station . . . . . do . . .</td><td>3,500.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>3,300.00</td><td>..</td><td>1</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>2,500.00</td><td>1</td><td>..</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>2,400.00</td><td>1</td><td>..</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>2,250.00</td><td>..</td><td>1</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>2,160.00</td><td>1</td><td>1</td></tr><tr><td>Veterinary inspectors . . . . . do . . .</td><td>1,980.00</td><td>4 (3 new)</td><td>1 (pt. time)</td></tr><tr><td>Veterinary inspectors . . . . . do . . .</td><td>1,860.00</td><td>2</td><td>..</td></tr><tr><td>Veterinary inspectors . . . . . do . . .</td><td>1,800.00</td><td>3</td><td>..</td></tr><tr><td>Veterinary inspector . . . . . do . . .</td><td>1,740.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Veterinary inspectors . . . . . do . . .</td><td>1,500.00</td><td>4 (3 new)</td><td>1</td></tr><tr><td>Senior zoologist . . . . . do . . .</td><td>3,600.00</td><td>1</td><td>1</td></tr><tr><td>Assistant chief of zoological division . . . . . do . . .</td><td>3,000.00</td><td>1</td><td>..</td></tr><tr><td>Assistant chief of pathological division . . . . . do . . .</td><td>2,880.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Physiologist . . . . . do . . .</td><td>2,820.00</td><td>1</td><td>..</td></tr><tr><td>Physiologist . . . . . do . . .</td><td>2,700.00</td><td>..</td><td>1</td></tr><tr><td>Physiologist . . . . . do . . .</td><td>2,100.00</td><td>1</td><td>..</td></tr><tr><td>Physiologist . . . . . do . . .</td><td>1,980.00</td><td>..</td><td>1</td></tr><tr><td>Senior bacteriologist . . . . . do . . .</td><td>2,820.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Assistant superintendent of experiment station . . . . . do . . .</td><td>2,460.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Bacteriologist . . . . . do . . .</td><td>2,400.00</td><td>1</td><td>..</td></tr><tr><td>Pathologist . . . . . do . . .</td><td>2,400.00</td><td>..</td><td>1</td></tr><tr><td>Assistant zoologist . . . . . do . . .</td><td>2,340.00</td><td>1</td><td>..</td></tr><tr><td>Assistant zoologist . . . . . do . . .</td><td>2,220.00</td><td>..</td><td>1</td></tr><tr><td>Assistant zoologist . . . . . do . . .</td><td>1,980.00</td><td>..</td><td>1</td></tr><tr><td>Chemist . . . . . do . . .</td><td>1,860.00</td><td>1</td><td>1</td></tr><tr><td>Chemist . . . . . do . . .</td><td>1,620.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Junior zoologist . . . . . do . . .</td><td>1,740.00</td><td>1</td><td>..</td></tr><tr><td>Junior zoologists . . . . . do . . .</td><td>1,620.00</td><td>..</td><td>2</td></tr><tr><td>Assistant in poisonous plant investigations . . . . . do . . .</td><td>1,440.00</td><td>1</td><td>1</td></tr><tr><td>Clerk . . . . . do . . .</td><td>1,600.00</td><td>..</td><td>1</td></tr><tr><td>Field assistant and messenger boy—\$840 to \$180 . . . . . do . . .</td><td></td><td>1</td><td>2</td></tr><tr><td colspan="4"><i>Wages:</i></td></tr><tr><td>Carpenter . . . . . do . . .</td><td>1,000.00</td><td>1</td><td>1</td></tr><tr><td>Laborer . . . . . do . . .</td><td>720.00</td><td>1</td><td>1</td></tr><tr><td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr><tr><td>  \$60 to \$45 . . . . . per month . . . . .</td><td></td><td>4</td><td>..</td></tr><tr><td>  \$3.75 to \$1.50 . . . . . per diem . . . . .</td><td></td><td>..</td><td>8</td></tr><tr><td></td><td></td><td>34</td><td>34</td></tr><tr><td>Salaries . . . . .</td><td></td><td>\$58,890.00</td><td>\$41,236.91</td></tr><tr><td>Wages . . . . .</td><td></td><td>4,300.00</td><td>5,123.50</td></tr><tr><td colspan="4"><i>Other objects of expenditure:</i></td></tr><tr><td>Traveling expenses . . . . .</td><td></td><td>7,500.00</td><td>3,269.80</td></tr><tr><td>Equipment and material . . . . .</td><td></td><td>5,000.00</td><td>4,156.88</td></tr><tr><td>Miscellaneous items . . . . .</td><td></td><td>18,040.00</td><td>17,854.70</td></tr><tr><td>Total . . . . .</td><td></td><td>93,730.00</td><td>71,641.79</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	<i>Salaries:</i>				Chief of zoological division . . . per annum . .	\$3,750.00	<i>Number.</i> 1	<i>Number.</i> ..	Chief of zoological division . . . . . do . . .	3,500.00	..	1	Superintendent of experiment station . . . . . do . . .	3,500.00	1	1 (pt. time)	Veterinary inspector . . . . . do . . .	3,300.00	..	1	Veterinary inspector . . . . . do . . .	2,500.00	1	..	Veterinary inspector . . . . . do . . .	2,400.00	1	..	Veterinary inspector . . . . . do . . .	2,250.00	..	1	Veterinary inspector . . . . . do . . .	2,160.00	1	1	Veterinary inspectors . . . . . do . . .	1,980.00	4 (3 new)	1 (pt. time)	Veterinary inspectors . . . . . do . . .	1,860.00	2	..	Veterinary inspectors . . . . . do . . .	1,800.00	3	..	Veterinary inspector . . . . . do . . .	1,740.00	..	1 (pt. time)	Veterinary inspectors . . . . . do . . .	1,500.00	4 (3 new)	1	Senior zoologist . . . . . do . . .	3,600.00	1	1	Assistant chief of zoological division . . . . . do . . .	3,000.00	1	..	Assistant chief of pathological division . . . . . do . . .	2,880.00	..	1 (pt. time)	Physiologist . . . . . do . . .	2,820.00	1	..	Physiologist . . . . . do . . .	2,700.00	..	1	Physiologist . . . . . do . . .	2,100.00	1	..	Physiologist . . . . . do . . .	1,980.00	..	1	Senior bacteriologist . . . . . do . . .	2,820.00	..	1 (pt. time)	Assistant superintendent of experiment station . . . . . do . . .	2,460.00	..	1 (pt. time)	Bacteriologist . . . . . do . . .	2,400.00	1	..	Pathologist . . . . . do . . .	2,400.00	..	1	Assistant zoologist . . . . . do . . .	2,340.00	1	..	Assistant zoologist . . . . . do . . .	2,220.00	..	1	Assistant zoologist . . . . . do . . .	1,980.00	..	1	Chemist . . . . . do . . .	1,860.00	1	1	Chemist . . . . . do . . .	1,620.00	..	1 (pt. time)	Junior zoologist . . . . . do . . .	1,740.00	1	..	Junior zoologists . . . . . do . . .	1,620.00	..	2	Assistant in poisonous plant investigations . . . . . do . . .	1,440.00	1	1	Clerk . . . . . do . . .	1,600.00	..	1	Field assistant and messenger boy—\$840 to \$180 . . . . . do . . .		1	2	<i>Wages:</i>				Carpenter . . . . . do . . .	1,000.00	1	1	Laborer . . . . . do . . .	720.00	1	1	Miscellaneous temporary labor—				\$60 to \$45 . . . . . per month . . . . .		4	..	\$3.75 to \$1.50 . . . . . per diem . . . . .		..	8			34	34	Salaries . . . . .		\$58,890.00	\$41,236.91	Wages . . . . .		4,300.00	5,123.50	<i>Other objects of expenditure:</i>				Traveling expenses . . . . .		7,500.00	3,269.80	Equipment and material . . . . .		5,000.00	4,156.88	Miscellaneous items . . . . .		18,040.00	17,854.70	Total . . . . .		93,730.00	71,641.79		
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																																																																																																																																																																							
<i>Salaries:</i>																																																																																																																																																																																																										
Chief of zoological division . . . per annum . .	\$3,750.00	<i>Number.</i> 1	<i>Number.</i> ..																																																																																																																																																																																																							
Chief of zoological division . . . . . do . . .	3,500.00	..	1																																																																																																																																																																																																							
Superintendent of experiment station . . . . . do . . .	3,500.00	1	1 (pt. time)																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	3,300.00	..	1																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	2,500.00	1	..																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	2,400.00	1	..																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	2,250.00	..	1																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	2,160.00	1	1																																																																																																																																																																																																							
Veterinary inspectors . . . . . do . . .	1,980.00	4 (3 new)	1 (pt. time)																																																																																																																																																																																																							
Veterinary inspectors . . . . . do . . .	1,860.00	2	..																																																																																																																																																																																																							
Veterinary inspectors . . . . . do . . .	1,800.00	3	..																																																																																																																																																																																																							
Veterinary inspector . . . . . do . . .	1,740.00	..	1 (pt. time)																																																																																																																																																																																																							
Veterinary inspectors . . . . . do . . .	1,500.00	4 (3 new)	1																																																																																																																																																																																																							
Senior zoologist . . . . . do . . .	3,600.00	1	1																																																																																																																																																																																																							
Assistant chief of zoological division . . . . . do . . .	3,000.00	1	..																																																																																																																																																																																																							
Assistant chief of pathological division . . . . . do . . .	2,880.00	..	1 (pt. time)																																																																																																																																																																																																							
Physiologist . . . . . do . . .	2,820.00	1	..																																																																																																																																																																																																							
Physiologist . . . . . do . . .	2,700.00	..	1																																																																																																																																																																																																							
Physiologist . . . . . do . . .	2,100.00	1	..																																																																																																																																																																																																							
Physiologist . . . . . do . . .	1,980.00	..	1																																																																																																																																																																																																							
Senior bacteriologist . . . . . do . . .	2,820.00	..	1 (pt. time)																																																																																																																																																																																																							
Assistant superintendent of experiment station . . . . . do . . .	2,460.00	..	1 (pt. time)																																																																																																																																																																																																							
Bacteriologist . . . . . do . . .	2,400.00	1	..																																																																																																																																																																																																							
Pathologist . . . . . do . . .	2,400.00	..	1																																																																																																																																																																																																							
Assistant zoologist . . . . . do . . .	2,340.00	1	..																																																																																																																																																																																																							
Assistant zoologist . . . . . do . . .	2,220.00	..	1																																																																																																																																																																																																							
Assistant zoologist . . . . . do . . .	1,980.00	..	1																																																																																																																																																																																																							
Chemist . . . . . do . . .	1,860.00	1	1																																																																																																																																																																																																							
Chemist . . . . . do . . .	1,620.00	..	1 (pt. time)																																																																																																																																																																																																							
Junior zoologist . . . . . do . . .	1,740.00	1	..																																																																																																																																																																																																							
Junior zoologists . . . . . do . . .	1,620.00	..	2																																																																																																																																																																																																							
Assistant in poisonous plant investigations . . . . . do . . .	1,440.00	1	1																																																																																																																																																																																																							
Clerk . . . . . do . . .	1,600.00	..	1																																																																																																																																																																																																							
Field assistant and messenger boy—\$840 to \$180 . . . . . do . . .		1	2																																																																																																																																																																																																							
<i>Wages:</i>																																																																																																																																																																																																										
Carpenter . . . . . do . . .	1,000.00	1	1																																																																																																																																																																																																							
Laborer . . . . . do . . .	720.00	1	1																																																																																																																																																																																																							
Miscellaneous temporary labor—																																																																																																																																																																																																										
\$60 to \$45 . . . . . per month . . . . .		4	..																																																																																																																																																																																																							
\$3.75 to \$1.50 . . . . . per diem . . . . .		..	8																																																																																																																																																																																																							
		34	34																																																																																																																																																																																																							
Salaries . . . . .		\$58,890.00	\$41,236.91																																																																																																																																																																																																							
Wages . . . . .		4,300.00	5,123.50																																																																																																																																																																																																							
<i>Other objects of expenditure:</i>																																																																																																																																																																																																										
Traveling expenses . . . . .		7,500.00	3,269.80																																																																																																																																																																																																							
Equipment and material . . . . .		5,000.00	4,156.88																																																																																																																																																																																																							
Miscellaneous items . . . . .		18,040.00	17,854.70																																																																																																																																																																																																							
Total . . . . .		93,730.00	71,641.79																																																																																																																																																																																																							





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
General Expenses, Bureau of Animal Industry—Continued.					
Abortion of animals.					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Assistant superintendent of experiment station.....per annum..	\$2,760.00	1	1		
Bacteriologist.....do.....	2,400.00	1	1		
Bacteriologist.....do.....	2,220.00	1	1 (pt. time)		
Veterinary inspector.....do.....	1,920.00	1	1 (pt. time)		
Veterinary inspector.....do.....	1,860.00	1	1 (pt. time)		
Veterinary inspector.....do.....	1,800.00	1	1		
Veterinary inspector.....do.....	1,740.00	1	1		
Veterinary inspector.....do.....	1,620.00	1	2 (1 pt. time)		
Veterinary inspector.....do.....	1,500.00	1	1 (pt. time)		
Agent, cooperative veterinarian, charwoman, and messenger boy, \$600 to \$480.....do.....		2	4		
Wages:					
Laborer (watchman).....do.....	1,200.00	1	1		
Miscellaneous temporary labor—\$4.50 to \$3.....per diem.....		6	13 (5 pt. time)		
		14	26		
Salaries.....		\$13,040.00	\$12,542.00		
Wages.....		7,303.00	8,138.42		
Other objects of expenditure:					
Traveling expenses.....		1,200.00	1,103.34		
Equipment and material.....		1,000.00	786.63		
Miscellaneous items.....		25,177.00	24,532.18		
Total.....		47,720.00	47,102.57		
(66) For investigating the disease of hog cholera, and for its control or eradication by such means as may be necessary, including demonstrations, the formation of organizations, and other methods, either independently or in cooperation with farmers, associations, State or county authorities, [§641,045] \$658,945: Provided, That of said sum [§163,560] \$188,280 shall be available for expenditure in carrying out the provisions of the act approved March 4, 1913, regulating the preparation, sale, barter, exchange, or shipment of any virus, serum, toxin, or analogous product manufactured in the United States and the importation of such products intended for use in the treatment of domestic animals: And provided further, That of said sum [§30,620] \$29,520 shall be available for researches concerning the cause, modes of spread, and methods of treatment and prevention of this disease (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-199, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1) -- \$658, 945. 00					
Appropriation for 1916.....	\$235,000	Estimate for 1915.....	\$75,000		
Appropriation for 1917.....	360,000	Estimate for 1916.....	235,000		
Appropriation for 1918.....	413,100	Estimate for 1917.....	185,000		
Appropriation for 1919.....	446,900	Estimate for 1918.....	413,100		
Appropriation for 1920.....	641,045	Estimate for 1919.....	446,900		
		Estimate for 1920.....	438,080		
		Estimate for 1921.....	658,945		
NOTE.—There is an apparent increase in the above item of \$17,900, but taking into consideration transfers to the statutory roll aggregating \$12,100 (\$5,720 from eradication, \$5,280 from viruses, serums, and toxins, and \$1,100 from researches), the actual increase is \$30,000. This additional amount will be necessary to properly carry out the provisions of the act regulating the preparation, sale, barter, exchange, or shipment of viruses, serums, toxins, and analogous products. The larger part of the funds now appropriated for the enforcement of this law is expended in the supervision of the preparation, sale, etc., of anti-hog-cholera serum. The following figures show the increase in the production of serum at licensed establishments: 1916, 222,786,853 cubic centimeters; 1917, 250,041,290 cubic centimeters; 1918, 528,306,874 cubic centimeters; first six months of 1919, 330,898,763 cubic centimeters, indicating a production of some					





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Animal Industry—Continued.*

700,000,000 cubic centimeters for this year. During these years there has been no increase in the appropriations for the supervision of the work. Last year the funds were hardly sufficient for the needs of the service, and adequate supervision will be impossible unless the amount is increased.

*Eradicating hog cholera.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Chief of hog cholera division..per annum..	\$3,240.00	1	..
Veterinary inspectors.....do.....	2,880.00	..	3 (pt.time)
Veterinary inspectors.....do.....	2,760.00	1	3 (2 pt.time)
Veterinary inspectors.....do.....	2,700.00	..	2 (pt. time)
Veterinary inspector.....do.....	2,500.00	1	..
Veterinary inspectors.....do.....	2,460.00	..	6 (5 pt.time)
Veterinary inspectors.....do.....	2,400.00	2	3 (pt. time)
Veterinary inspectors.....do.....	2,340.00	3	28 (24 pt.time)
Veterinary inspectors.....do.....	2,280.00	1	2 (pt. time)
Veterinary inspectors.....do.....	2,220.00	2	9 (3 pt. time)
Veterinary inspectors.....do.....	2,160.00	3	1 (pt. time)
Veterinary inspectors.....do.....	2,100.00	1	2
Veterinary inspectors.....do.....	2,040.00	5	3
Veterinary inspector.....do.....	2,000.00	1	..
Veterinary inspectors.....do.....	1,980.00	2	..
Veterinary inspectors.....do.....	1,920.00	16	4 (pt. time)
Veterinary inspectors.....do.....	1,860.00	3	..
Veterinary inspectors.....do.....	1,800.00	30	15 (12 pt.time)
Veterinary inspector.....do.....	1,760.00	1	..
Veterinary inspectors.....do.....	1,740.00	2	3 (1 pt. time)
Veterinary inspector.....do.....	1,720.00	1	..
Veterinary inspectors.....do.....	1,620.00	72	5 (3 pt. time)
Veterinary inspectors.....do.....	1,600.00	2	1 (pt. time)
Veterinary inspectors.....do.....	1,500.00	17	55 (52 pt.time)
Lay inspector, grade 2.....do.....	1,380.00	1	..
Clerk.....do.....	1,500.00	..	1
Clerks.....do.....	1,400.00	..	2
Clerks.....do.....	1,200.00	..	2
Clerks.....do.....	1,100.00	..	3
Clerk.....do.....	1,020.00	..	1
Clerks.....do.....	1,000.00	..	2
Messenger boy.....do.....	480.00	..	1
<b>Wages:</b>			
Laborers.....per diem..	3.00	5 (temp.)	2 (temp.)
		173	159
Salaries.....		\$296,500.00	\$155,876.18
Wages.....		4,695.00	1,878.00
<b>Other objects of expenditure:</b>			
Traveling expenses.....		127,000.00	64,406.41
Equipment and material.....		5,000.00	4,255.28
Miscellaneous items.....		7,950.00	6,038.24
<b>Total.....</b>		<b>441,145.00</b>	<b>232,454.11</b>

*Control of viruses, serums, and toxins.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Veterinary inspector.....per annum..	\$2,640.00	1	1
Veterinary inspectors.....do.....	2,400.00	1	2 (1 pt.time)
Veterinary inspector.....do.....	2,340.00	1	..
Veterinary inspectors.....do.....	2,280.00	5	..
Veterinary inspector.....do.....	2,220.00	1	1
Veterinary inspectors.....do.....	2,160.00	..	6 (1 pt.time)
Veterinary inspector.....do.....	2,100.00	1	..
Veterinary inspectors.....do.....	2,040.00	2	2
Veterinary inspectors.....do.....	2,000.00	3	..
Veterinary inspectors.....do.....	1,980.00	3	2
Veterinary inspectors.....do.....	1,920.00	14	5 (1 pt.time)
Veterinary inspectors.....do.....	1,800.00	21	18 (3 pt.time)
Veterinary inspectors.....do.....	1,740.00	4	3 (1 pt.time)
Veterinary inspectors.....do.....	1,700.00	..	2
Veterinary inspectors.....do.....	1,620.00	10	12 (9 pt. time)
Veterinary inspectors.....do.....	1,600.00	..	4 (2 pt.time)
Veterinary inspectors.....do.....	1,500.00	3	15 (10 pt.time)
Lay inspectors, grade 2.....do.....	1,320.00	2	..
Lay inspectors, grade 2.....do.....	1,200.00	..	2
Lay inspectors, grade 1.....do.....	1,260.00	2	..
Lay inspectors, grade 1.....do.....	1,200.00	20 (16 new)	..
Lay inspectors, grade 1.....do.....	1,140.00	..	2
Lay inspectors, grade 1.....do.....	1,080.00	10	31 (11 pt. time)
Clerk.....do.....	1,400.00	..	1
Clerks.....do.....	1,200.00	..	2
Clerk.....do.....	1,080.00	..	1
		104	112
Salaries.....		\$171,580.00	\$153,090.14
<b>Other objects of expenditure:</b>			
Traveling expenses.....		10,000.00	6,875.31
Equipment and material.....		2,000.00	1,589.46
Miscellaneous items.....		4,700.00	2,922.17
<b>Total.....</b>		<b>188,280.00</b>	<b>164,477.08</b>





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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General Expenses, Bureau of Animal Industry—Continued.

Hog cholera research.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
		Number.	Number.
Salaries:			
Chief of biochemic division...per annum..	\$4,500.00	1	1
Veterinary inspector.....do.....	3,240.00	1	1
Veterinary inspector.....do.....	3,000.00	1	1
Veterinary inspector.....do.....	2,460.00	1	1
Senior bacteriologist.....do.....	2,880.00	1	1
Biochemist.....do.....	2,160.00	1	1
Clerk.....do.....	1,100.00	1	1
Wages:			
Laborer.....do.....	1,050.00	1	1
Laborers, \$950 and \$720.....do.....		1	3
Carpenter.....per diem..	5.00	1	1
		7	12
Salaries.....		\$15,240.00	\$16,502.94
Wages.....		2,040.00	3,605.00
Other objects of expenditure:			
Traveling expenses.....		1,500.00	1,151.35
Equipment and material.....		1,500.00	796.41
Miscellaneous items.....		9,240.00	7,487.17
Total.....		29,520.00	29,542.87

(67) For all necessary expenses for the investigation, treatment, and eradication of dourine [ \$88,800 ] (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1) --- \$85,200.00

Appropriation for 1918.....	\$99,000	Estimate for 1918.....	\$99,000
Appropriation for 1919.....	97,800	Estimate for 1919.....	97,800
Appropriation for 1920.....	88,800	Estimate for 1920.....	88,800
		Estimate for 1921.....	85,200

NOTE.—There is a decrease in this item of \$3,600, due to the transfer of 2 clerks of class 1 to the statutory roll of this bureau and of 1 assistant engineer, at \$1,200 to the statutory roll of the Office of the Secretary.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
		Number.	Number.
Salaries:			
Chief of field inspection division.....per annum..	\$3,000.00	1	1 (pt. time)
Chief of pathological division.....do.....	3,000.00	1	1 (pt. time)
Veterinary inspector.....do.....	3,060.00	1	1 (pt. time)
Veterinary inspector.....do.....	2,760.00	1	1 (pt. time)
Veterinary inspectors.....do.....	2,500.00	2	1 (pt. time)
Veterinary inspector.....do.....	2,160.00	1	1 (pt. time)
Veterinary inspector.....do.....	2,100.00	1	1
Veterinary inspectors.....do.....	1,920.00	2 (pt. time)	3 (2 pt. time)
Veterinary inspectors.....do.....	1,860.00	1 (pt. time)	1
Veterinary inspectors.....do.....	1,800.00	1	4 (3 pt. time)
Veterinary inspectors.....do.....	1,740.00	1 (pt. time)	2
Veterinary inspector.....do.....	1,720.00	1 (pt. time)	1
Veterinary inspector.....do.....	1,700.00	1 (pt. time)	1
Veterinary inspectors.....do.....	1,620.00	12 (pt. time)	7 (6 pt. time)
Veterinary inspectors.....do.....	1,600.00	1	2 (1 pt. time)
Veterinary inspectors.....do.....	1,500.00	1 (pt. time)	21 (20 pt. time)
Physiologist.....do.....	2,360.00	1	1 (pt. time)
Assistant in live-stock investigations.....do.....	1,800.00	1	1 (pt. time)
Agent.....do.....	1,360.00	1	1 (pt. time)
Lay inspector, grade 1.....do.....	1,080.00	1	1 (pt. time)
Clerks.....do.....	1,200.00	1	3
Wages:			
Laborers (temp.).....per diem..	3.00	3	1
		30	53
Salaries.....		\$38,517.00	\$40,728.66
Wages.....		2,817.00	939.00
Other objects of expenditure:			
Traveling expenses.....		25,000.00	26,799.47
Equipment and material.....		2,500.00	2,667.16
Miscellaneous items.....		16,366.00	13,993.59
Total.....		85,200.00	85,127.88



Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																									
<i>General Expenses, Bureau of Animal Industry—Continued.</i>																																																																											
(68) For general administrative work, including traveling expenses and salaries of employees engaged in such work, rent outside of the District of Columbia, office fixtures and supplies, express, freight, telegraph, telephone, and other necessary expenses ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; July 24, 1919, vol. 41, pp. 238-241, sec. 1</i> ).—	\$26, 686. 00																																																																										
Appropriation for 1911.....	\$51,940	Estimate for 1912.....	\$46,940																																																																								
Appropriation for 1912.....	46,940	Estimate for 1913.....	42,606																																																																								
Appropriation for 1913.....	42,606	Estimate for 1914.....	40,186																																																																								
Appropriation for 1914.....	40,186	Estimate for 1915.....	39,286																																																																								
Appropriation for 1915.....	39,286	Estimate for 1916.....	39,286																																																																								
Appropriation for 1916.....	39,286	Estimate for 1917.....	30,186																																																																								
Appropriation for 1917.....	30,186	Estimate for 1918.....	26,686																																																																								
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Appropriation for 1919.....	26,686	Estimate for 1920.....	26,686																																																																								
Appropriation for 1920.....	26,686	Estimate for 1921.....	26,686																																																																								
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td>Number.</td><td>Number.</td></tr><tr><td>Assistant chief of bureau.....per annum..</td><td>\$4,500.00</td><td>1</td><td>..</td></tr><tr><td>Veterinary inspector.....do.....</td><td>3,240.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Veterinary inspector.....do.....</td><td>2,160.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Veterinary inspector.....do.....</td><td>2,040.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Live stock editor.....do.....</td><td>2,700.00</td><td>1</td><td>..</td></tr><tr><td>Chief, miscellaneous division.....do.....</td><td>2,500.00</td><td>1</td><td>1</td></tr><tr><td>Clerk.....do.....</td><td>1,200.00</td><td>6 (temp.)</td><td>1 (pt. time)</td></tr><tr><td></td><td></td><td>9</td><td>5</td></tr><tr><td>Salaries.....</td><td></td><td>\$15,000.00</td><td>\$7,233.33</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Stationery.....</td><td></td><td>1,500.00</td><td>1,385.35</td></tr><tr><td>Traveling expenses.....</td><td></td><td>1,000.00</td><td>632.41</td></tr><tr><td>Equipment and material.....</td><td></td><td>2,000.00</td><td>1,855.24</td></tr><tr><td>Telephone and telegraph service.....</td><td></td><td>3,500.00</td><td>3,231.04</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>3,686.00</td><td>1,587.64</td></tr><tr><td>Total.....</td><td></td><td>26,686.00</td><td>15,925.01</td></tr></table>				Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		Number.	Number.	Assistant chief of bureau.....per annum..	\$4,500.00	1	..	Veterinary inspector.....do.....	3,240.00	..	1 (pt. time)	Veterinary inspector.....do.....	2,160.00	..	1 (pt. time)	Veterinary inspector.....do.....	2,040.00	..	1 (pt. time)	Live stock editor.....do.....	2,700.00	1	..	Chief, miscellaneous division.....do.....	2,500.00	1	1	Clerk.....do.....	1,200.00	6 (temp.)	1 (pt. time)			9	5	Salaries.....		\$15,000.00	\$7,233.33	Other objects of expenditure:				Stationery.....		1,500.00	1,385.35	Traveling expenses.....		1,000.00	632.41	Equipment and material.....		2,000.00	1,855.24	Telephone and telegraph service.....		3,500.00	3,231.04	Miscellaneous items.....		3,686.00	1,587.64	Total.....		26,686.00	15,925.01
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																																								
Salaries:		Number.	Number.																																																																								
Assistant chief of bureau.....per annum..	\$4,500.00	1	..																																																																								
Veterinary inspector.....do.....	3,240.00	..	1 (pt. time)																																																																								
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Miscellaneous items.....		3,686.00	1,587.64																																																																								
Total.....		26,686.00	15,925.01																																																																								
In all, for general expenses.....	\$4,591,381.00	\$4,326,121.00																																																																									
Appropriations for 1911.....	\$1,234,540	Estimates for 1912.....	\$1,288,180																																																																								
Appropriations for 1912.....	1,257,300	Estimates for 1913.....	1,229,666																																																																								
Appropriations for 1913.....	1,217,866	Estimates for 1914.....	1,366,546																																																																								
Appropriations for 1914.....	1,371,946	Estimates for 1915.....	1,727,996																																																																								
Appropriations for 1915.....	1,597,996	Estimates for 1916.....	1,637,746																																																																								
Appropriations for 1916.....	1,856,706	Estimates for 1917.....	2,072,776																																																																								
Appropriations for 1917.....	2,277,776	Estimates for 1918.....	2,588,336																																																																								
Appropriations for 1918.....	2,613,336	Estimates for 1919.....	2,680,986																																																																								
Appropriations for 1919.....	3,122,678	Estimates for 1920.....	3,076,238																																																																								
Appropriations for 1920.....	4,326,121	Estimates for 1921.....	4,591,381																																																																								





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Meat Inspection, Bureau of Animal Industry—</i>		
(69) For additional expenses in carrying out the provisions of the meat-inspection Act of June 30, 1906 (Thirty-fourth Statutes at Large, page 674), as amended by the Act of March 4, 1907 (Thirty-fourth Statutes at Large, page 1256), including the purchase of tags, labels, stamps, and certificates printed in course of manufacture, \$868,280 [there is hereby appropriated for the fiscal year ending June 30, 1920, \$903,960, of which sum \$100,000 may be used for the inspection of equine meat in the manner provided in said Act, as amended. And, hereafter, no person, firm, or corporation or officer, agent, or employee thereof shall transport or offer for transportation, and no carrier of interstate or foreign commerce, shall transport or receive for transportation from one State or Territory or the District of Columbia to any other State or Territory or the District of Columbia or to any place under the jurisdiction of the United States or to any foreign country any of such meat or food products thereof unless plainly and conspicuously labeled, marked, branded or tagged "Horse-meat" or "Horse-meat Product" as the case may be, under such rules and regulations as may be prescribed by the Secretary of Agriculture. All the penalties, terms and provisions in said Act, as amended, except the exemption therein applying to animals slaughtered by any farmer on a farm, to retail butchers and retail dealers in meat food products supplying their customers are hereby made applicable to horses, their carcasses, parts of carcasses and meat food products thereof, and the establishments and other places where such animals are slaughtered or the meat or meat food products thereof are prepared or packed for the interstate or foreign commerce, and to all persons, firms, corporations and officers, agents and employees thereof who slaughter such animals or prepare or handle such meat or meat food products for interstate or foreign commerce] (acts June 30, 1906, vol. 34, p. 674, sec. 1; July 24, 1919, vol. 41, p. 241, sec. 1)	\$868, 280. 00	\$903, 960. 00
[That, hereafter, the Secretary of Agriculture is authorized, in his discretion, to pay employees of the Bureau of Animal Industry employed in establishments subject to the provisions of the meat inspection Act of June 30, 1906, for all overtime work performed at such establishments, at such rates as he may determine, and to accept from such establishments wherein such overtime work is performed reimbursement for any sums paid out by him for such overtime work]		
Appropriation for 1914..... \$200,000 Appropriation for 1915..... 375,000 Appropriation for 1916..... 375,000 Appropriation for 1917..... 344,500 Appropriation for 1918..... 501,620 Appropriation for 1919..... 477,200 Appropriation for 1920..... 903,960	Estimate for 1914..... \$300,000 Estimate for 1915..... 300,000 Estimate for 1916..... 375,000 Estimate for 1917..... 344,500 Estimate for 1918..... 575,300 Estimate for 1919..... 477,200 Estimate for 1920..... 449,480 Estimate for 1921..... 868,280	
NOTE.—There is a decrease in this item of \$35,680, due to transfers to the statutory roll of this bureau aggregating \$34,600 and the transfer of 1 fireman at \$1,080 to the statutory roll of the Office of the Secretary.		





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*Meat Inspection, Bureau of Animal Industry—Continued.*

The language of the paragraph has been amended by inserting the words "including the purchase of tags, labels, stamps, and certificates printed in course of manufacture," at the place indicated. This new language is added in view of the difficulty of obtaining promptly supplies of this character from the Government Printing Office, which apparently is not properly equipped for this sort of manufacture. The language of recent enactments relative to printing, strictly construed, prevents the department from securing such supplies from any other source than the Government Printing Office, except with the previous consent of the Joint Committee on Printing. It is not believed that it was the intention of Congress to place this restriction on printing of this kind. Attention is invited to the fact that similar authority has been carried in the legislative, executive, and judicial appropriation acts for a number of years, covering like supplies for the Treasury Department, this item reading: "For stationery, including tags, labels, and index cards printed in course of manufacture." These articles are used for the marking of coins and other articles—uses which appear to be exactly comparable with those to which the meat-inspection supplies are devoted.

The limitation of \$100,000 for the inspection of equine meat is eliminated as it is unnecessary and merely complicates the accounting. The additions to the meat-inspection law providing for the inspection of equine meat, as well as the provision authorizing the payment for overtime work to employees engaged at establishments subject to the provisions of the meat-inspection act, are omitted, as they are now permanent legislation.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Veterinary inspectors.....per annum..	\$4,080.00	1	..
Veterinary inspector.....do.....	3,840.00	..	1
Veterinary inspector.....do.....	3,540.00	..	1
Veterinary inspectors.....do.....	3,240.00	3	..
Veterinary inspectors.....do.....	3,000.00	8	2
Veterinary inspectors.....do.....	2,760.00	2	6 (1 pt. time)
Veterinary inspectors.....do.....	2,750.00	..	4 (pt. time)
Veterinary inspector.....do.....	2,700.00	..	1
Veterinary inspectors.....do.....	2,640.00	3	1
Veterinary inspectors.....do.....	2,620.00	6	..
Veterinary inspectors.....do.....	2,580.00	6	..
Veterinary inspectors.....do.....	2,520.00	11	1
Veterinary inspectors.....do.....	2,500.00	..	6
Veterinary inspectors.....do.....	2,460.00	1	5
Veterinary inspector.....do.....	2,415.00	1	..
Veterinary inspectors.....do.....	2,400.00	1	11
Veterinary inspectors.....do.....	2,370.00	3	..
Veterinary inspectors.....do.....	2,340.00	22	1
Veterinary inspector.....do.....	2,295.00	1	..
Veterinary inspectors.....do.....	2,280.00	3	1
Veterinary inspectors.....do.....	2,250.00	..	2
Veterinary inspectors.....do.....	2,220.00	19	20
Veterinary inspector.....do.....	2,190.00	..	1
Veterinary inspectors.....do.....	2,160.00	10	3
Veterinary inspectors.....do.....	2,120.00	14	..
Veterinary inspectors.....do.....	2,100.00	12	18
Veterinary inspectors.....do.....	2,040.00	20	11 (1 pt. time)
Veterinary inspectors.....do.....	2,020.00	13	..
Veterinary inspectors.....do.....	2,000.00	2	16 (1 pt. time)
Veterinary inspectors.....do.....	1,980.00	6	18 (1 pt. time)
Veterinary inspectors.....do.....	1,920.00	176	22 (5 pt. time)
Veterinary inspectors.....do.....	1,900.00	1	29 (1 pt. time)
Veterinary inspectors.....do.....	1,860.00	24	1
Veterinary inspectors.....do.....	1,800.00	2	188 (18 pt. t.)
Veterinary inspectors.....do.....	1,740.00	42	27 (3 pt. time.)
Veterinary inspectors.....do.....	1,720.00	31	..
Veterinary inspector.....do.....	1,716.00	1	..
Veterinary inspectors.....do.....	1,680.00	2	..
Veterinary inspectors.....do.....	1,620.00	263	46 (8 pt. time)
Veterinary inspectors.....do.....	1,600.00	..	36 (2 pt. time)
Veterinary inspectors.....do.....	1,500.00	82	346 (95 pt. t.)
Chief of office.....do.....	4,000.00	1	1
Laboratory inspector in charge.....do.....	3,120.00	1	..
Laboratory inspector in charge.....do.....	3,000.00	..	1
Senior bacteriologist.....do.....	2,940.00	1	..
Senior bacteriologist.....do.....	2,520.00	1	..
Live stock editor.....do.....	2,700.00	1	..
Senior biochemist.....do.....	2,520.00	1	..
Traveling veterinary inspectors.....do.....	2,520.00	..	3 (1 pt. time)
Traveling veterinary inspector.....do.....	2,280.00	..	1
Traveling veterinary inspector.....do.....	2,040.00	..	1
Senior laboratory inspector.....do.....	2,640.00	1	..
Senior laboratory inspectors.....do.....	2,520.00	2	1
Senior laboratory inspector.....do.....	2,460.00	..	1
Senior laboratory inspector.....do.....	2,400.00	..	1
Senior veterinary inspector.....do.....	2,380.00	1	..
Senior laboratory inspector.....do.....	2,340.00	1	..
Senior laboratory inspector.....do.....	2,220.00	..	1
Senior laboratory inspectors.....do.....	2,160.00	..	2





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Meat Inspection, Bureau of Animal Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<i>Salaries—Continued.</i>		<i>Number.</i>	<i>Number.</i>		
Expert in sanitation.....per annum..	\$2,340.00	1	..		
Expert in sanitation.....do.....	2,220.00	..	1		
Laboratory inspector.....do.....	2,180.00	1	..		
Laboratory inspector.....do.....	2,100.00	1	1		
Laboratory inspector.....do.....	1,980.00	1	..		
Laboratory inspector.....do.....	1,860.00	1	1		
Laboratory inspectors.....do.....	1,740.00	1	2		
Laboratory inspectors.....do.....	1,520.00	2	..		
Laboratory inspectors.....do.....	1,490.00	..	2		
Junior laboratory inspector.....do.....	1,800.00	1	..		
Junior laboratory inspector.....do.....	1,740.00	1	..		
Photographer.....do.....	1,800.00	1	..		
Biochemic.....do.....	1,800.00	1	..		
Inspector.....do.....	1,800.00	..	1		
Inspector.....do.....	1,600.00	..	1		
Lay inspectors, grade 2.....do.....	1,720.00	1	..		
Lay inspectors, grade 2.....do.....	1,680.00	17	..		
Lay inspectors, grade 2.....do.....	1,600.00	..	2		
Lay inspectors, grade 2.....do.....	1,560.00	..	19		
Lay inspectors, grade 2.....do.....	1,520.00	3	..		
Lay inspectors, grade 2.....do.....	1,500.00	73	..		
Lay inspectors, grade 2.....do.....	1,440.00	19	..		
Lay inspectors, grade 2.....do.....	1,400.00	..	3		
Lay inspectors, grade 2.....do.....	1,380.00	1	77		
Lay inspectors, grade 2.....do.....	1,320.00	872	25 (5pt. time)		
Lay inspectors, grade 2.....do.....	1,220.00	2	..		
Lay inspectors, grade 2.....per annum..	1,200.00	4	913 (21 pt. t.)		
Lay inspector, grade 2.....do.....	1,140.00	..	1		
Lay inspectors, grade 2.....do.....	1,120.00	11	..		
Lay inspectors, grade 2.....do.....	1,100.00	..	2		
Lay inspectors, grade 2.....do.....	1,090.00	..	8		
Junior laboratory helper.....do.....	1,680.00	..	1		
Junior laboratory helper.....do.....	1,620.00	1	1		
Laboratory aid or assistant.....do.....	1,620.00	1	..		
Laboratory aids or assistants.....do.....	1,500.00	..	2		
Laboratory aids or assistants.....do.....	1,320.00	2	..		
Laboratory aid or assistant.....do.....	1,220.00	1	..		
Laboratory aids or assistants.....do.....	1,200.00	..	2		
Laboratory aid or assistant.....do.....	1,100.00	..	1		
Laboratory aid or assistant.....do.....	1,020.00	1	..		
Junior chemists.....do.....	1,520.00	2	..		
Junior chemists.....do.....	1,400.00	..	2		
Junior chemist.....do.....	1,320.00	1	..		
Junior chemists.....do.....	1,200.00	..	2		
Agent.....do.....	1,320.00	1	..		
Agent.....do.....	1,200.00	..	1		
Lay inspector, grade 1.....do.....	1,236.00	1	..		
Lay inspectors, grade 1.....do.....	1,260.00	88	..		
Lay inspectors, grade 1.....do.....	1,200.00	577	..		
Lay inspectors, grade 1.....do.....	1,140.00	..	79		
Lay inspectors, grade 1.....do.....	1,080.00	52	645 (120 pt. t.)		
Lay inspectors, grade 1.....do.....	1,000.00	..	3		
Lay inspectors, grade 1.....do.....	1,200.00	..	1		
Chemists' aid.....do.....	1,080.00	1	..		
Assistant in meat inspection.....do.....	1,440.00	..	1		
Laboratory mechanician.....do.....	1,800.00	..	1		
Clerk.....do.....	1,500.00	..	2		
Clerks.....do.....	1,400.00	..	2		
Clerk.....do.....	1,380.00	..	1		
Clerks.....do.....	1,260.00	..	1		
Clerks.....do.....	1,200.00	..	26		
Clerk.....do.....	1,100.00	..	1		
Assistant in meat inspection, lay inspector, microscopist, laboratory helper, clerk, messenger boy, and charwoman—\$960 to \$48.....do.....		7	25		
<i>Wages:</i>					
Laborer.....do.....	840.00	1	1		
		2,553	2,698		
<i>Salaries.....</i>		\$3,730,832.00	\$3,352,727.45		
<i>Wages.....</i>		840.00	840.00		
<i>Other objects of expenditure:</i>					
Stationery.....		5,000.00	2,709.93		
Traveling expenses.....		41,500.00	36,439.96		
Equipment and material.....		45,000.00	31,267.01		
Telephone and telegraph service.....		5,000.00	4,721.48		
Miscellaneous items.....		40,108.00	37,799.55		
<i>Total.....</i>		3,868,280.00	3,464,505.38		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—BUREAU OF ANIMAL INDUSTRY.		
1 clerk, \$1,600 per annum. 2 clerks, at \$1,500 each per annum. 1 clerk, \$1,400 per annum. 39 clerks, at \$1,200 each per annum. 4 clerks, at \$1,100 each per annum. 1 clerk, \$1,080 per annum. 4 clerks, at \$1,020 each per annum. 3 clerks, at \$1,000 each per annum.		
MEAT INSPECTION.		
7 clerks, at \$1,400 each per annum. 42 clerks, at \$1,200 each per annum. 3 clerks, at \$1,100 each per annum. 3 clerks, at \$1,080 each per annum. 3 clerks, at \$1,000 each per annum. 1 clerk, \$900 per annum.		
Total for Bureau of Animal Industry .....	\$6, 118, 451. 00	\$5, 783, 231. 00





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<b>BUREAU OF PLANT INDUSTRY.</b>		
<i>Salaries, Bureau of Plant Industry—</i>		
(1) One physiologist and pathologist, who shall be chief of bureau ( <i>R. S.</i> , p. 87, secs. 520-523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; July 24, 1919, vol. 41, pp. 241, 242, sec. 1)-----	\$5, 000. 00	
(2) One assistant to the chief ( <i>same acts</i> )-----	3, 000. 00	
(3) One executive assistant in seed distribution ( <i>same acts</i> )-----	2, 500. 00	
(4) One officer in charge of publications ( <i>same acts</i> )-----	2, 250. 00	
(5) One landscape gardener ( <i>same acts</i> )-----	1, 800. 00	
(6) One officer in charge of records ( <i>same acts</i> )-----	2, 250. 00	
(7) One executive clerk ( <i>same acts</i> )-----	2, 000. 00	
(8) Four executive clerks, at \$1,980 each (increase of 1 by transfer from lump fund for administrative expenses) ( <i>same acts</i> )--	7, 920. 00	
(9) One seed inspector ( <i>same acts</i> )-----	1, 000. 00	
(10) One seed warehouseman ( <i>same acts</i> )-----	1, 400. 00	
(11) One seed warehouseman ( <i>same acts</i> )-----	1, 000. 00	
(12) <b>【One seed warehouseman, \$840, changed to 1 laboratory aid, \$840.】</b>		
NOTE.—This change in designation and those in items 32 and 36 are recommended because it has been impossible for some time to fill the positions. The bureau has need for additional laboratory aids, and it is believed that such help may be secured at these salaries. No change in amount is involved.		
(13) Twelve clerks, class 4 (increase of 3 by transfer from lump funds for blister rust control, black and stripe rust investi- gations, and purchase and distribution of valuable seeds) ( <i>same acts</i> )-----	21, 600. 00	
(14) Eighteen clerks, class 3 (increase of 4 by transfer from lump funds for citrus canker eradication, crop physiology, bar- berry eradication, and demonstrations on reclamation projects) ( <i>same acts</i> )-----	28, 800. 00	
(15) Five clerks, at \$1,500 each (increase of 1 by transfer from lump fund for forage crop investigations) ( <i>same acts</i> )-----	7, 500. 00	
(16) Twenty-eight clerks, class 2 (increase of 3 by transfer from lump funds, 1 from blister rust control, and 2 from black and stripe rust investigations) ( <i>same acts</i> )-----	39, 200. 00	
(17) Three clerks, at \$1,320 each ( <i>same acts</i> )-----	3, 960. 00	



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(18) Eighty-six clerks, class 1 (increase of 13, 12 by transfer from lump funds, 1 from forest pathology, 1 from blister rust control, 2 from cotton and truck diseases, 1 from cereal investigations, 2 from black and stripe rust investigations, 1 from barberry eradication, 1 from alkali and drought resistant plants, 1 from western irrigation agriculture, 1 from new and rare seeds, and 1 from purchase and distribution of valuable seeds, and 1 in lieu of 1 photographer, \$1,200) ( <i>R. S.</i> , p. 87, secs. 520-523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; July 24, 1919, vol. 41, pp. 241, 242, sec. 1) -----	\$103,200.00	
(19) Two clerks or draftsmen, at \$1,200 each ( <i>same acts</i> ) -----	2,400.00	
(20) Two clerks, at \$1,100 each ( <i>same acts</i> ) -----	2,200.00	
(21) Five clerks, at \$1,080 each (increase of 1 by transfer from lump fund for blister rust control) ( <i>same acts</i> ) -----	5,400.00	
(22) Seven clerks, at \$1,020 each ( <i>same acts</i> ) -----	7,140.00	
(23) Thirty clerks, at \$1,000 each ( <i>same acts</i> ) -----	30,000.00	
(24) Forty-three clerks, at \$900 each ( <i>same acts</i> ) -----	38,700.00	
(25) One clerk or draftsman ( <i>same acts</i> ) -----	900.00	
(26) Eleven clerks, at \$840 each ( <i>same acts</i> ) -----	9,240.00	
(27) One laborer ( <i>same acts</i> ) -----	780.00	
(28) Forty-four messengers or laborers, at \$720 each (increase of 2, 1 in lieu of 1 laboratory apprentice, \$720, and 1 by transfer from lump fund for black and stripe rust investigations) ( <i>same acts</i> ) -----	31,680.00	
NOTE.—The change in designation of 1 laboratory apprentice to messenger or laborer is explained in the note under item 46.		
(29) Eight messengers or laborers, at \$660 each ( <i>same acts</i> ) -----	5,280.00	
(30) Seventeen messengers or laborers, at \$600 each (increase of 1 in lieu of 1 teamster, \$600) ( <i>same acts</i> ) -----	10,200.00	
NOTE.—See note under item 46.		
(31) One artist ( <i>same acts</i> ) -----	1,620.00	
(32) <b>【One artist, \$900, changed to 1 laboratory aid, \$900.】</b>		
NOTE.—See note under item 12.		
(33) One clerk or artist ( <i>same acts</i> ) -----	1,400.00	
(34) Two clerks or artists, at \$1,200 each ( <i>same acts</i> ) -----	2,400.00	
NOTE.—This change in designation is recommended as it is impossible to obtain the services of a competent photographer at the salary provided. Additional clerical assistance is urgently needed, and the place, with the change recommended, can be advantageously used.		
(35) <b>【One photographer, \$1,200, changed to 1 clerk, class 1.】</b>		
NOTE.—This change in designation is recommended as it is impossible to obtain the services of a competent photographer at the salary provided. Additional clerical assistance is urgently needed, and the place, with the change recommended, can be advantageously used.		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(36) <b>【One photographer, \$840, changed to 1 laboratory aid, \$840.】</b>		
NOTE.—See note under item 12.		
(37) Two laboratory aids, at \$1,440 each ( <i>R. S., p. 87, secs. 520–523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; July 24, 1919, vol. 41, pp. 241, 242, sec. 1</i> ) .....	\$2, 880. 00	
(38) One laboratory aid ( <i>same acts</i> ) .....	1, 380. 00	
(39) Four laboratory aids or clerks, at \$1,200 each ( <i>same acts</i> )....	4, 800. 00	
(40) One laboratory aid, clerk, or skilled laborer ( <i>same acts</i> ).....	1, 080. 00	
(41) Three laboratory aids, clerks, or skilled laborers, at \$1,020 each ( <i>same acts</i> ) .....	3, 060. 00	
(42) Two laboratory aids, at \$960 each ( <i>same acts</i> ) .....	1, 920. 00	
(43) Two laboratory aids, at \$900 each (increase of 1 in lieu of 1 artist, \$900) ( <i>same acts</i> ) .....	1, 800. 00	
NOTE.—See note under item 12.		
(44) Six laboratory aids, at \$840 each (increase of 2 in lieu of 1 seed warehouseman, \$840, and 1 photographer, \$840) ( <i>same acts</i> ).....	5, 040. 00	
NOTE.—See note under item 12.		
(45) Seven laboratory aids, at \$720 each ( <i>same acts</i> ) .....	5, 040. 00	
(46) <b>【One laboratory apprentice, \$720, changed to 1 messenger or laborer, \$720.】</b>		
NOTE.—This change in designation and that in item 67 are recommended because the places of laboratory apprentice and teamster have been vacant for several years on account of the bureau's inability to secure help at the salaries provided. The places could be utilized to advantage for the employment of messengers or laborers. No increase in appropriation would result from these changes.		
(47) One map tracer or laboratory aid ( <i>same acts</i> ) .....	900. 00	
(48) Two gardeners, at \$1,440 each ( <i>same acts</i> ) .....	2, 880. 00	
(49) Five gardeners, at \$1,200 each (increase of 1 in lieu of 1 blacksmith, \$1,200) ( <i>same acts</i> ) .....	6, 000. 00	
NOTE.—See note under item 63.		
(50) Eight gardeners, at \$1,100 each ( <i>same acts</i> ) .....	8, 800. 00	
(51) Fifteen gardeners, at \$900 each ( <i>same acts</i> ) .....	13, 500. 00	
(52) Nineteen gardeners, at \$780 each ( <i>same acts</i> ) .....	14, 820. 00	
(53) One skilled laborer ( <i>same acts</i> ) .....	1, 100. 00	
(54) One skilled laborer ( <i>same acts</i> ) .....	960. 00	
(55) Two skilled laborers, at \$900 each ( <i>same acts</i> ) .....	1, 800. 00	



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1921.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(56) Three skilled laborers, at \$840 each ( <i>R. S.</i> , p. 87, secs. 520–523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; July 24, 1919, vol. 41, pp. 241, 242, sec. 1) -----	\$2, 520. 00	
(57) One assistant in technology ( <i>same acts</i> ) -----	1, 400. 00	
(58) One assistant in technology ( <i>same acts</i> ) -----	1, 380. 00	
(59) One general mechanic (by transfer from lump fund for Arlington Farm) ( <i>same acts</i> ) -----	1, 400. 00	
(60) One mechanician ( <i>same acts</i> ) -----	1, 080. 00	
(61) One mechanical assistant (by transfer from lump fund for horticultural investigations) ( <i>same acts</i> ) -----	1, 400. 00	
(62) One mechanical assistant ( <i>same acts</i> ) -----	1, 200. 00	
(63) <b>【One blacksmith, \$1,200, changed to 1 gardener, \$1,200.】</b>  NOTE.—This change in designation is recommended as it is impossible to secure the services of a competent blacksmith at \$1,200, but the place could be advantageously utilized for the employment of an additional gardener, whose services are needed.		
(64) One carpenter ( <i>same acts</i> ) -----	900. 00	
(65) One painter ( <i>same acts</i> ) -----	900. 00	
(66) One teamster ( <i>same acts</i> ) -----	840. 00	
(67) <b>【One teamster, \$600, changed to 1 messenger or laborer, \$600.】</b>  NOTE.—See note under item 46.		
(68) <b>【Twenty-one laborers, at \$540 each, changed to 21 messengers or laborers, at \$540 each.】</b>  NOTE.—This change in designation is made in order that the class of labor best suited to the needs of the bureau may be engaged as vacancies occur.		
(69) Twenty-one messengers or laborers, at \$540 each (in lieu of 21 laborers, at \$540 each) ( <i>same acts</i> ) -----	11, 340. 00	
NOTE.—See note under item 68.		
(70) Twenty-nine messengers or laborers, at \$480 each ( <i>same acts</i> ) -	13, 920. 00	
(71) Three messenger boys, at \$660 each ( <i>same acts</i> ) -----	1, 980. 00	
(72) Fourteen messenger boys, at \$600 each ( <i>same acts</i> ) -----	8, 400. 00	
(73) Ten messenger boys, at \$480 each ( <i>same acts</i> ) -----	4, 800. 00	
(74) Five messenger boys, at \$420 each ( <i>same acts</i> ) -----	2, 100. 00	
(75) Sixteen messenger boys, at \$360 each ( <i>same acts</i> ) -----	5, 760. 00	
(76) Four charwomen, at \$480 each ( <i>same acts</i> ) -----	1, 920. 00	
(77) Twenty-one charwomen, at \$240 each ( <i>same acts</i> ) -----	5, 040. 00	
	\$529, 760. 00	\$491, 280. 00





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
Appropriations for 1911..... \$255,270	Estimates for 1912..... \$330,320	
Appropriations for 1912..... 330,470	Estimates for 1913..... 374,790	
Appropriations for 1913..... 379,820	Estimates for 1914..... 424,380	
Appropriations for 1914..... 427,690	Estimates for 1915..... 476,520	
Appropriations for 1915..... 478,170	Estimates for 1916..... 429,430	
Appropriations for 1916..... 424,150	Estimates for 1917..... 418,240	
Appropriations for 1917..... 418,240	Estimates for 1918..... 422,660	
Appropriations for 1918..... 419,380	Estimates for 1919..... 440,020	
Appropriations for 1919..... 440,020	Estimates for 1920..... 494,380	
Appropriations for 1920..... 491,280	Estimates for 1921..... 529,760	
NOTE.—Apparent increase, \$38,480, no actual increase, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 executive clerk, from administrative expenses.....	\$1,980	
3 clerks, class 4, 1 from blister rust control, 1 from black and stripe rust investigations, and 1 from purchase and distribution of valuable seeds.....	5,400	
4 clerks, class 3, 1 from citrus canker eradication, 1 from crop physiology, 1 from barberry eradication, and 1 from demonstrations on reclamation projects.....	6,400	
1 clerk, from forage crop investigations.....	1,500	
3 clerks, class 2, 1 from blister rust control, and 2 from black and stripe rust investigations.....	4,200	
12 clerks, class 1, 1 from forest pathology, 1 from blister rust control, 2 from cotton and truck diseases, 1 from cereal investigations, 2 from black and stripe rust investigations, 1 from barberry eradication, 1 from alkali and drought resistant plants, 1 from western irrigation agriculture, 1 from new and rare seeds, and 1 from purchase and distribution of valuable seeds.....	14,400	
1 clerk, from blister rust control.....	1,080	
1 messenger or laborer, from black and stripe rust investigations..	720	
1 general mechanic, from Arlington Farm.....	1,400	
1 mechanical assistant, from horticultural investigations.....	1,400	
Apparent increase.....	38,480	
<i>Change of title.</i>		
1 seed warehouseman, \$840, changed to 1 laboratory aid, \$840.		
1 artist, \$900, changed to 1 laboratory aid, \$900.		
1 photographer, \$840, changed to 1 laboratory aid, \$840.		
1 laboratory apprentice, \$720, changed to 1 messenger or laborer, \$720.		
1 blacksmith, \$1,200, changed to 1 gardener, \$1,200.		
1 teamster, \$600, changed to 1 messenger or laborer, \$600.		
21 laborers, at \$540 each, changed to 21 messengers or laborers, at \$540 each.		
1 photographer, \$1,200, changed to 1 clerk, class 1.		
<i>General Expenses, Bureau of Plant Industry—</i>		
(78) For all necessary expenses in the investigation of fruits, fruit trees, grain, cotton, tobacco, vegetables, grasses, forage, drug, medicinal, poisonous, fiber, and other plants and plant industries, in cooperation with other branches of the department, the State experiment stations, and practical farmers, and for the erection of necessary farm buildings: <i>Provided</i> , That the cost of any building erected shall not exceed \$1,500; for field and station expenses, including fences, drains, and other farm improvements; for repairs in the District of Columbia and elsewhere; for rent outside of the District of Columbia; and for the employment of all investigators, local and special agents, agricultural explorers, experts, clerks, illustrators, assistants, and all labor and other necessary expenses in the city of Washington and elsewhere required for the investigations, experiments, and demonstrations herein authorized, as follows ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> ):		

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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>			
(79) For investigations of plant diseases and pathological collections, including the maintenance of a plant-disease survey <b>["\$62,020"]</b> ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> )-----		\$77,020.00	
Appropriation for 1911.....	\$21,710	Estimate for 1912.....	\$22,930
Appropriation for 1912.....	22,930	Estimate for 1913.....	22,930
Appropriation for 1913.....	25,000	Estimate for 1914.....	30,000
Appropriation for 1914.....	30,000	Estimate for 1915.....	37,000
Appropriation for 1915.....	37,000	Estimate for 1916.....	37,000
Appropriation for 1916.....	34,500	Estimate for 1917.....	38,500
Appropriation for 1917.....	38,500	Estimate for 1918.....	62,500
Appropriation for 1918.....	62,500	Estimate for 1919.....	62,020
Appropriation for 1919.....	62,020	Estimate for 1920.....	81,320
Appropriation for 1920.....	62,020	Estimate for 1921.....	77,020
<p>NOTE.—There is an increase in this item of \$15,000. This amount, if allowed, will be used in enlarging the work of the plant-disease survey, which has proven of great value to both Federal and State plant pathologists. It is clear that the more thoroughly the collection of information regarding the occurrence of plant diseases can be systematized the better basis there will be for economical and effective research work. It is proposed to increase the number of specialists employed for short periods to secure information on the distribution of diseases reported in new localities and for developing further the bureau's contacts with specialists in the State institutions so that the Department will be able to be in constant touch with the plant disease situation in the important crop-producing regions and call immediate attention to unusual developments of diseases of important crops.</p>			
Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Pathologist in charge.....per annum..	\$4,500.00	1	1
Pathologist in charge of plant disease survey.....do....	3,000.00	1	--
Pathologist in charge of plant disease survey.....do....	2,760.00	--	1
Pathologist.....do....	2,500.00	1	--
Pathologist.....do....	2,460.00	1	--
Pathologists.....do....	2,280.00	1	2
Pathologists.....do....	2,040.00	4	2
Pathologist.....do....	1,860.00	1	1
Pathologist.....do....	1,800.00	--	1
Mycologist.....do....	2,400.00	1	1
Mycologist.....do....	2,280.00	1	1
Physiologist.....do....	2,040.00	1	1
Scientific assistants.....do....	1,620.00	1	2
Scientific assistant.....do....	1,560.00	1	--
Scientific assistants.....do....	1,500.00	2	3
Scientific assistant.....do....	1,260.00	1	--
Botanical translator.....do....	1,500.00	1	1 (temp.)
Assistant.....do....	1,920.00	--	1
Assistants.....do....	1,800.00	3 (1 new)	6 (4 temp.)
Assistant.....do....	1,440.00	--	1 (temp.)
Assistants.....do....	1,400.00	1	2 (1 temp.)
Assistants.....do....	1,260.00	--	1 (temp.)
Assistants.....do....	1,200.00	--	3 (temp.)
Assistant.....do....	1,100.00	1	1
Agent.....do....	1,080.00	1	--
Clerk.....do....	1,200.00	--	1 (temp.)
Assistants, laboratory aids, collaborators, and messen- gers—			
\$900 to \$1.....do....		60	46
\$60 to \$1.....per month..		55	53
Wages:			
Miscellaneous temporary la- bor—			
\$90 to \$40.....do....		12	4
\$3 to \$2.....per diem..		10	9
\$0.25 to \$0.20.....per hour..		5	4
		167	149
Salaries.....		\$47,000.00	\$40,662.42
Wages.....		1,100.00	1,062.72
Other objects of expenditure:			
Stationery.....		1,300.00	1,633.31
Traveling expenses.....		6,800.00	5,401.01
Equipment and material.....		12,000.00	5,695.03
Miscellaneous items.....		8,820.00	8,094.95
Total.....		77,020.00	62,549.44





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (80) For the investigation of diseases of orchard and other fruits, **[\$80,935]** \$87,935: *Provided, That \$8,000 of said amount shall be available for the investigation of diseases of the pecan (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) -----* **\$87, 935. 00**

Appropriation for 1911.....	\$34,075	Estimate for 1912.....	\$42,075
Appropriation for 1912.....	42,075	Estimate for 1913.....	40,675
Appropriation for 1913.....	40,675	Estimate for 1914.....	45,435
Appropriation for 1914.....	40,675	Estimate for 1915.....	52,675
Appropriation for 1915.....	52,675	Estimate for 1916.....	58,255
Appropriation for 1916.....	56,115	Estimate for 1917.....	63,615
Appropriation for 1917.....	63,615	Estimate for 1918.....	71,415
Appropriation for 1918.....	76,415	Estimate for 1919.....	75,935
Appropriation for 1919.....	75,935	Estimate for 1920.....	75,935
Appropriation for 1920.....	80,935	Estimate for 1921.....	87,935

NOTE.—There is an increase in this item of \$7,000, which amount will provide for a resumption on a reduced scale of the pathological inspection of fruits during processes of marketing carried on last year, in cooperation with the Bureau of Markets, under an item of \$18,000 provided by the Food Production Act. The mere determination that fruit has arrived at some central market in poor condition is only one phase of a well-developed food-products inspection service. The producer, shipper, and the distributor need to know the cause of the poor condition and, in so far as practicable, to determine whether the spoilage is the result of improper methods for safeguarding against disease during the processes of culture and handling on the farm and in the orchard or due to storage rots resulting from improper methods of market handling and storage.

*Fruit diseases.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Pathologist in charge..... per annum..	\$4,000.00	1	1
Pathologist..... do.....	3,750.00	1	1
Pathologist..... do.....	3,500.00	1	1
Pathologist..... do.....	3,240.00	1	1
Pathologists..... do.....	2,760.00	2	2
Pathologist..... do.....	2,520.00	1	1
Pathologist..... do.....	2,460.00	1	..
Pathologist..... do.....	2,400.00	1	..
Pathologist..... do.....	2,280.00	1	1
Pathologists..... do.....	2,040.00	5	5 (1 temp.)
Pathologist..... do.....	1,980.00	1	..
Botanical artist..... do.....	2,040.00	1	1
Scientific assistants..... do.....	1,860.00	1	..
Scientific assistants..... do.....	1,800.00	4 (new)	1
Scientific assistants..... do.....	1,680.00	1	2 (1 temp.)
Scientific assistants..... do.....	1,620.00	3 (2 new)	1 (temp.)
Scientific assistants..... do.....	1,500.00	..	2 (temp.)
Scientific assistant..... do.....	1,440.00	..	1 (pt. time)
Scientific assistant..... do.....	1,380.00	1	..
Scientific assistants..... do.....	1,200.00	3	2 (1 temp.)
Assistant..... do.....	1,620.00	1	..
Assistant..... do.....	1,080.00	1	..
Assistants..... do.....	900.00	1	2
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$100 to \$50..... per month.....		1	3
\$7.25 to \$2..... per diem.....		1	15
\$0.40 to \$0.25..... per hour.....		..	4
		35	47
Salaries.....		\$60,250.00	\$45,675.10
Wages.....		1,800.00	1,357.99
<b>Other objects of expenditure:</b>			
Traveling expenses.....		7,500.00	5,812.99
Equipment and material.....		6,800.00	3,885.04
Miscellaneous items.....		3,585.00	10,684.08
<b>Total.....</b>		<b>79,935.00</b>	<b>67,415.20</b>



Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																								
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																										
<i>Pecan diseases.</i>																																																										
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Pathologist.....per annum..</td><td>\$2,040.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do....</td><td>1,860.00</td><td>1</td><td>1</td></tr><tr><td>Wages:</td><td></td><td></td><td></td></tr><tr><td>Miscellaneous temporary labor..per diem..</td><td>\$3 to \$2</td><td>..</td><td>3</td></tr><tr><td></td><td></td><td>2</td><td>5</td></tr><tr><td>Salaries.....</td><td></td><td>\$3,900.00</td><td>\$2,968.67</td></tr><tr><td>Wages.....</td><td></td><td></td><td>13.50</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>2,500.00</td><td>1,507.99</td></tr><tr><td>Equipment and material.....</td><td></td><td>1,200.00</td><td>1,235.04</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>100.00</td><td>1,922.07</td></tr><tr><td>Total.....</td><td></td><td>8,000.00</td><td>7,647.27</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		<i>Number.</i>	<i>Number.</i>	Pathologist.....per annum..	\$2,040.00	1	1	Scientific assistant.....do....	1,860.00	1	1	Wages:				Miscellaneous temporary labor..per diem..	\$3 to \$2	..	3			2	5	Salaries.....		\$3,900.00	\$2,968.67	Wages.....			13.50	Other objects of expenditure:				Traveling expenses.....		2,500.00	1,507.99	Equipment and material.....		1,200.00	1,235.04	Miscellaneous items.....		100.00	1,922.07	Total.....		8,000.00	7,647.27		
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																							
Salaries:		<i>Number.</i>	<i>Number.</i>																																																							
Pathologist.....per annum..	\$2,040.00	1	1																																																							
Scientific assistant.....do....	1,860.00	1	1																																																							
Wages:																																																										
Miscellaneous temporary labor..per diem..	\$3 to \$2	..	3																																																							
		2	5																																																							
Salaries.....		\$3,900.00	\$2,968.67																																																							
Wages.....			13.50																																																							
Other objects of expenditure:																																																										
Traveling expenses.....		2,500.00	1,507.99																																																							
Equipment and material.....		1,200.00	1,235.04																																																							
Miscellaneous items.....		100.00	1,922.07																																																							
Total.....		8,000.00	7,647.27																																																							
(81) For conducting such investigations of the nature and means of communication of the disease of citrus trees, known as citrus canker, and for applying such methods of eradication or control of the disease as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and the employment of such persons and means, in the city of Washington and elsewhere, and cooperation with such authorities of the States concerned, organizations of growers, or individuals, as he may deem necessary to accomplish such purposes, <b>["\$196,320"] \$109,720</b> , and, in the discretion of the Secretary of Agriculture, no expenditures shall be made for these purposes until a sum or sums at least equal to such expenditures shall have been appropriated, subscribed, or contributed by State, county, or local authorities, or by individuals or organizations for the accomplishment of such purposes: <i>Provided</i> , That no part of the money herein appropriated shall be used to pay the cost or value of trees or other property injured or destroyed ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> ) .....	\$109,720.00																																																									
Appropriation for 1918..... \$430,000	Estimate for 1918..... \$250,000																																																									
Appropriation for 1919..... 250,000	Estimate for 1919..... 250,000																																																									
Appropriation for 1920..... 196,320	Estimate for 1920..... 196,320																																																									
	Estimate for 1921..... 109,720																																																									
NOTE.—There is an apparent decrease in this item of \$86,600, but taking into consideration the transfer to the statutory roll of 1 clerk of class 3, the actual decrease is \$85,000. The effective inspection and eradication work in Florida, Alabama, Louisiana, Mississippi, and Texas has reduced the citrus canker disease to a very few scattered infections, and throughout a considerable portion of the citrus area the disease appears to have been completely eradicated. A gradual reduction in the force of field inspectors necessary for this work has been under way during the past season, and it is believed that a much greater reduction will be possible during the coming fiscal year without jeopardizing the success of the work of completely eliminating citrus canker from the United States.																																																										





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Pathologist in charge.....per annum..	\$4,500.00	..	1 (pt. time)		
Pathologist.....do.....	1,860.00	..	1		
Pathologist.....do.....	1,620.00	1	1		
Agent.....do.....	2,700.00	1 (pt. time)	..		
Agent.....do.....	2,000.00	1	..		
Agent.....per month..	200.00	1	1 (temp.)		
Agents.....do.....	195.00	2	2		
Agent.....do.....	175.00	1	6 (5 temp.)		
Agent.....do.....	160.00	1	1 (temp.)		
Agents.....do.....	150.00	5	6 (2 temp.)		
Agents.....do.....	133.33	1	4 (temp.)		
Agent.....do.....	130.00	1	1		
Agents.....do.....	125.00	6	8 (4 temp.)		
Agent.....do.....	110.00	1	1		
Agents.....do.....	109.00	5	15 (8 temp.)		
Agents.....do.....	90.00	1	3 (1 temp.)		
Agents.....do.....	85.00	3	3 (1 temp.)		
Plant propagator.....per annum..	1,400.00	..	1		
Assistants.....do.....	1,400.00	..	1		
Assistants.....do.....	1,260.00	..	1		
Assistants.....do.....	1,080.00	..	1 (temp.)		
Agents, field assistants, and col- laborators—					
\$540 to \$1.....do.....		5 (1 pt. time)	1		
\$80 to \$25.....per month.....		2 (pt. time)	16 (7 temp.)		
\$10.50 to \$2.33.....per diem.....		86	149 (77 temp.)		
Wages:					
Miscellaneous temporary labor—					
\$40 to \$7.50.....per month.....		..	4		
\$6.94 to \$9.50.....per diem.....		..	71		
		124	299		
Salaries.....		\$86,720.00	\$163,766.72		
Wages.....			4,945.27		
Other objects of expenditure:					
Stationery.....		1,000.00	424.07		
Traveling expenses.....		18,000.00	16,208.79		
Equipment and material.....		2,000.00	795.16		
Miscellaneous items.....		2,000.00	25,095.88		
Total.....		109,720.00	211,235.89		
(82) For the investigation of diseases of forest and ornamental trees and shrubs, including a study of the nature and habits of the parasitic fungi causing the chestnut-tree bark disease, the white-pine blister rust, and other epidemic tree diseases, for the purpose of discovering new methods of control and applying methods of eradication or control already discovered [ \$82,315 ] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) .....				\$81,115.00	
Appropriation for 1911.....	\$16,510	Estimate for 1912.....	\$24,670		
Appropriation for 1912.....	24,670	Estimate for 1913.....	29,510		
Appropriation for 1913.....	29,510	Estimate for 1914.....	29,510		
Appropriation for 1914.....	29,510	Estimate for 1915.....	69,510		
Appropriation for 1915.....	69,510	Estimate for 1916.....	67,960		
Appropriation for 1916.....	67,960	Estimate for 1917.....	57,175		
Appropriation for 1917.....	87,175	Estimate for 1918.....	85,915		
Appropriation for 1918.....	85,915	Estimate for 1919.....	83,635		
Appropriation for 1919.....	83,635	Estimate for 1920.....	82,315		
Appropriation for 1920.....	82,315	Estimate for 1921.....	81,115		
NOTE.—There is an apparent decrease in this item of \$1,200. due to the transfer to the statutory roll of 1 clerk of class 1.					



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Pathologist in charge.....per annum..	\$3,500.00	1	1 (pt. time)		
Pathologists.....do.....	3,000.00	4	4 (1 pt. time)		
Pathologists.....do.....	2,760.00	2	2 (1 pt. time)		
Pathologist.....do.....	2,700.00	1	1 (pt. time)		
Pathologist.....do.....	2,520.00	1	1		
Pathologist.....do.....	2,500.00	1	1		
Pathologist.....do.....	2,400.00	1	1		
Pathologist.....do.....	2,280.00	1	1		
Pathologist.....do.....	2,040.00	1	3 (2 pt. time)		
Pathologist.....do.....	1,980.00	1	1		
Pathologists.....do.....	1,800.00	2	1		
Scientific assistants.....do.....	1,800.00	1	2 (1 temp.)		
Scientific assistant.....do.....	1,500.00	1	1		
Scientific assistants.....do.....	1,440.00	1	5 (1 temp.)		
Scientific assistants.....do.....	1,200.00	1	2		
Pathological inspector.....do.....	1,200.00	1	1		
Assistant.....do.....	1,500.00	1	1		
Assistants.....do.....	1,440.00	2	1 (temp.)		
Assistants.....do.....	1,200.00	3	1		
Assistant.....do.....	1,080.00	1	1		
Assistant.....per month.....	155.00	1	1 (temp.)		
Assistant.....do.....	150.00	1	1 (pt. time)		
Assistant.....do.....	135.00	1	1 (temp.)		
Assistant.....do.....	95.00	1	1 (temp.)		
Assistant.....do.....	85.00	1	1		
Superintendent of field station.....per annum..	1,440.00	1	1		
Clerk.....do.....	1,320.00	1	1 (temp.)		
Clerks.....do.....	1,200.00	2	2 (temp.)		
Agent.....per month.....	225.00	1	1		
Agent.....do.....	100.00	1	1		
Assistant, collaborators, messengers, and student assistant—					
\$900 to \$1.....per annum.....		4	4		
\$75 to \$60.....per month.....		3	5		
\$2.80.....per diem.....		2	2 (temp.)		
Wages:					
Miscellaneous temporary labor—					
\$600.....per annum.....		1	1		
\$75 to \$60.....per month.....		2	2		
\$7 to \$2.....per diem.....		42	42		
		37	91		
Salaries.....		\$60,855.00	\$54,656.65		
Wages.....			3,546.59		
Other objects of expenditure:					
Stationery.....		600.00	660.03		
Traveling expenses.....		14,500.00	14,656.45		
Equipment and material.....		3,400.00	2,645.27		
Miscellaneous items.....		1,760.00	12,310.16		
Total.....		81,115.00	88,475.15		

- (83) For applying such methods of eradication or control of the white-pine blister rust as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and the employment of such persons and means in the city of Washington and elsewhere, in cooperation with such authorities of the States concerned, organizations, or individuals as he may deem necessary to accomplish such purposes, ~~[\$220,728]~~ \$214,168, and in the discretion of the Secretary of Agriculture no expenditures shall be made for these purposes until a sum or sums at least equal to such expenditures shall have been appropriated, subscribed, or contributed by State, county, or local authorities, or by individuals or organizations for the accomplishment of such purposes: *Provided*, That no part of the money herein appropriated shall be used to pay the cost or value of trees or other property injured or destroyed (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) .....\$214, 168. 00

Appropriation for 1918.....	\$300,000	Estimate for 1918.....	\$300,000
Appropriation for 1919.....	230,448	Estimate for 1919.....	246,448
Appropriation for 1920.....	220,728	Estimate for 1920.....	220,728
		Estimate for 1921.....	214,168

NOTE.—There is a decrease in this item of \$6,560, due to transfers to the statutory roll of this bureau aggregating \$5,480 and the transfer of 1 fireman at \$1.080 to the statutory roll of the Office of the Secretary.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
		Number.	Number.		
Salaries:					
Pathologist in charge.....per annum..	\$3,500.00	..	1 (pt. time)		
Pathologist in charge.....do.....	3,000.00	1	..		
Pathologists.....do.....	3,000.00	..	2 (1 pt. time)		
Pathologist.....do.....	2,760.00	..	1		
Pathologist.....do.....	2,700.00	1	1 (pt. time)		
Pathologist.....do.....	2,500.00	..	1 (pt. time)		
Pathologists.....do.....	2,400.00	2	..		
Pathologists.....do.....	2,280.00	..	2		
Pathologist.....do.....	2,040.00	..	1 (pt. time)		
Pathologist.....do.....	1,800.00	1	2		
Pathologists.....do.....	1,500.00	2	1 (pt. time)		
Assistants.....do.....	1,800.00	3	7 (5 temp.)		
Assistants.....do.....	1,620.00	3	2 (1 temp.)		
Assistants.....do.....	1,500.00	4	18 (16 temp.)		
Assistants.....do.....	1,440.00	1	2 (1 temp.)		
Assistants.....do.....	1,400.00	1	2		
Assistants.....do.....	1,380.00	2	3 (1 temp.)		
Assistants.....do.....	1,320.00	2	4 (1 temp.)		
Assistant.....do.....	1,260.00	1	..		
Assistants.....do.....	1,200.00	19 (13 temp.)	28 (22 temp.)		
Assistant.....do.....	1,100.00	1	1		
Assistants.....do.....	1,080.00	13 (12 temp.)	5		
Assistants.....do.....	1,020.00	20 (temp.)	13 (temp.)		
Assistant.....do.....	1,000.00	1	..		
Assistants.....per month.....	225.00	1 (temp.)	1 (temp.)		
Assistants.....do.....	200.00	1	4 (temp.)		
Assistants.....do.....	175.00	2	2 (temp.)		
Agents.....per annum.....	1,800.00	1	2		
Agents.....do.....	1,500.00	..	4		
Agent.....per month.....	135.00	1 (temp.)	..		
Agent.....do.....	120.00	..	1		
Agents.....do.....	100.00	2 (temp.)	2		
Agents.....do.....	90.00	1 (temp.)	3		
Clerk.....per annum.....	1,800.00	..	1 (temp.)		
Clerk.....do.....	1,400.00	..	1 (temp.)		
Clerk.....do.....	1,200.00	..	1 (temp.)		
Clerk.....do.....	1,080.00	..	1 (temp.)		
Agents, assistants, collaborators and messengers—					
\$900 to \$1.....do.....		5	5		
\$80 to \$50.....per month.....		31	54		
\$6.50 to \$2.50.....per diem.....		4	48		
Wages:					
Miscellaneous temporary labor—					
\$4 to \$1.....do.....		600	690		
\$0.40 to \$0.20.....per hour.....		..	29		
		726	916		
Salaries.....		\$93,000.00	\$65,113.55		
Wages.....		35,000.00	45,036.94		
Other objects of expenditure:					
Stationery.....		4,000.00	2,402.30		
Traveling expenses.....		60,760.00	43,888.22		
Equipment and material.....		3,000.00	4,096.20		
Miscellaneous items.....		18,408.00	53,613.43		
Total.....		214,168.00	214,150.64		

- (84) For the investigation of diseases of cotton, potatoes, truck crops, forage crops, drug and related plants [**\$87,800**] (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) ----- \$108,900.00

Appropriation for 1911.....	\$12,960	Estimate for 1912.....	\$24,860
Appropriation for 1912.....	24,860	Estimate for 1913.....	22,000
Appropriation for 1913.....	22,000	Estimate for 1914.....	30,000
Appropriation for 1914.....	25,000	Estimate for 1915.....	42,000
Appropriation for 1915.....	46,000	Estimate for 1916.....	51,000
Appropriation for 1916.....	56,000	Estimate for 1917.....	59,000
Appropriation for 1917.....	59,000	Estimate for 1918.....	82,800
Appropriation for 1918.....	87,800	Estimate for 1919.....	87,800
Appropriation for 1919.....	87,800	Estimate for 1920.....	87,800
Appropriation for 1920.....	87,800	Estimate for 1921.....	108,900

NOTE.—There is an apparent increase in this item of \$21,100, but taking into consideration the transfer to the statutory roll of 2 clerks of class 1, the actual increase is \$23,500, which amount it is proposed to expend as follows:



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

(a) \$10,000 for investigating potato diseases. A number of problems concerning the life history and means of control of the potato wart remain to be solved. It is desired to enlarge the temporary field station now established in cooperation with the Federal Horticultural Board and the University of Pennsylvania and to carry on a very thorough investigation of the wart disease. A group of potato diseases classed as "mosaic" also presents a series of difficult problems including a determination of the exact nature of the cause of the diseases and of questions relating to their transmission by insects. The importance of this work is indicated by the fact that losses in infected fields frequently exceed 20 per cent.

(b) \$3,500 for investigation of the eel-worm disease of red clover, new to this country, which has appeared in large areas in southern Idaho and to some extent in the Pacific Northwest. This disease is due to a nematode, rather common in Europe and apparently first introduced from Europe into the Pacific Northwest. Up to the present time no critical study of the pest has been made in this country. As it threatens the maintenance of this important forage and soil-improving crop, its prompt investigation is very desirable.

(c) \$10,000 for continuing the pathological inspection of vegetables during processes of marketing, which was carried on last year, in cooperation with the Bureau of Markets, under an allotment of \$28,500 provided by the Food Production Act. The work proved of such decided benefit that the desirability of continuing it as a permanent activity is believed warranted. Four pathologists have been detailed from the Bureau of Plant Industry to aid the food products inspectors of the Bureau of Markets to recognize the different types of vegetable field and storage rots and other types of decay and thus enable them to discriminate between different kinds of spoilage; and in many cases it has been possible to make recommendations to producers and handlers of perishable products which have resulted in effecting material decreases in loss from decay.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
		<i>Number.</i>	<i>Number.</i>
<b>Salaries:</b>			
Pathologist in charge.....per annum.....	\$4,000.00	1	1
Pathologist in charge.....do.....	3,750.00	1	1
Pathologist.....do.....	3,500.00	1	1
Pathologist.....do.....	3,240.00	1	1
Pathologist.....do.....	2,640.00	1	1
Pathologist.....do.....	2,520.00	1	1
Pathologists.....do.....	2,400.00	2	2
Pathologists.....do.....	2,280.00	3	2
Pathologists.....do.....	2,160.00	2	2 (1 pt.time)
Pathologists.....do.....	2,040.00	5	6 (2 pt.time)
Pathologist.....do.....	1,980.00	1	1
Pathologists.....do.....	1,800.00	8 (3 new)	3 (1 temp.)
Pathologist.....do.....	1,620.00	1	1
Physiologist.....do.....	2,640.00	1	1
Physiologist.....do.....	2,400.00	1	1
Biochemist.....do.....	2,520.00	1	1
Pathological adviser.....do.....	2,400.00	1	1
Scientific assistants.....do.....	1,800.00	2	4 (3 pt.time)
Scientific assistant.....do.....	1,680.00	1	1
Scientific assistants.....do.....	1,620.00	1	4 (3 pt.time)
Scientific assistants.....do.....	1,500.00	1	2 (pt.time)
Scientific assistant.....do.....	1,440.00	1	1
Scientific assistant.....do.....	1,200.00	1	1
Assistants.....do.....	1,320.00	1	3 (temp.)
Assistant.....do.....	1,200.00	1	1
Assistant.....do.....	1,140.00	1	1
Assistant.....do.....	1,100.00	1	1
Assistants.....do.....	1,080.00	1	2 (temp.)
Laboratory aids.....do.....	1,200.00	1	1 (temp.)
Laboratory aids.....do.....	1,080.00	1 (temp.)	2 (pt.time)
Clerks.....do.....	1,200.00	1	2 (temp.)
Clerks.....do.....	1,100.00	1	2 (temp.)
Assistants, agents, collaborators, and messengers—			
\$900 to \$560.....do.....		2	1
\$70 to \$1.....per month.....		8 (4 new)	5 (2 temp.)
\$0.40 to \$0.35.....per hour.....		1	2 (temp.)
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$1,140 to \$720.....per annum.....		3	1
\$75 to \$50.....per month.....		3	5
\$6.50 to \$1.....per diem.....		1	24
\$0.82½ to \$0.25.....per hour.....		1	10
		57	92
Salaries.....		\$79,156.00	\$54,304.88
Wages.....		3,810.00	3,191.20
<b>Other objects of expenditure:</b>			
Stationery.....		400.00	1,087.99
Traveling expenses.....		16,033.00	11,232.19
Equipment and material.....		5,483.00	3,273.28
Miscellaneous items.....		4,018.00	14,033.61
<b>Total.....</b>		<b>108,900.00</b>	<b>87,123.15</b>





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Bureau of Plant Industry—Continued.

- (85) For investigating the physiology of crop plants and for testing and breeding varieties thereof **[\$48,460]** (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) ..... \$46,860.00

Appropriation for 1911.....	\$25,015	Estimate for 1912.....	\$33,015
Appropriation for 1912.....	33,015	Estimate for 1913.....	30,380
Appropriation for 1913.....	30,380	Estimate for 1914.....	36,580
Appropriation for 1914.....	33,380	Estimate for 1915.....	44,540
Appropriation for 1915.....	44,540	Estimate for 1916.....	47,040
Appropriation for 1916.....	44,540	Estimate for 1917.....	49,540
Appropriation for 1917.....	49,540	Estimate for 1918.....	54,060
Appropriation for 1918.....	49,060	Estimate for 1919.....	48,460
Appropriation for 1919.....	48,460	Estimate for 1920.....	48,460
Appropriation for 1920.....	48,460	Estimate for 1921.....	46,860

NOTE.—There is a decrease in this item of \$1,600, due to the transfer to the statutory roll of 1 clerk of class 3.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Physiologist in charge..... per annum.....	\$4,500.00	1	1
Physiologist in charge..... do.....	1,000.00	1	1
Physiologist..... do.....	3,240.00	1	1
Physiologist..... do.....	3,000.00	1	1
Physiologist..... do.....	2,160.00	1	1
Aboriginist..... do.....	3,240.00	1	1
Aboriginist..... do.....	3,000.00	1	1
Plant breeder..... do.....	2,280.00	1	1
Assistant..... do.....	2,520.00	1	1
Assistant..... do.....	1,920.00	1	1
Assistant..... do.....	1,500.00	1	1
Assistant..... do.....	1,440.00	1	1
Assistants..... do.....	1,200.00	3	1
Agent..... do.....	1,320.00	1	1
Agent..... do.....	1,200.00	1	1
Assistant in date culture..... do.....	2,000.00	1 (new)	1 (temp.)
Assistant in date culture..... do.....	1,600.00	1 (new)	1 (pt. time)
Clerk..... do.....	1,400.00	1	1 (temp.)
Clerk..... do.....	1,200.00	1	1 (temp.)
Agents, collaborators, translators, student assistants, and messengers—			
\$800 to \$1..... do.....		14	13
\$75 to \$25..... per month.....		1	3
\$6 to \$4..... per diem.....		1	3
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$600..... per annum.....		1	1
\$75..... per month.....		1	1
\$5 to \$2..... per diem.....		4	23
		34	54
Salaries.....		\$29,647.00	\$24,397.99
Wages.....		1,090.00	4,222.20
<b>Other objects of expenditure:</b>			
Stationery.....		2,000.00	1,326.03
Traveling expenses.....		6,400.00	5,680.07
Equipment and material.....		6,000.00	3,793.45
Miscellaneous items.....		1,723.00	7,678.92
<b>Total.....</b>		<b>46,860.00</b>	<b>47,098.66</b>

- (86) For soil-bacteriology and plant-nutrition investigations, including the testing of samples, procured in the open market, of cultures for inoculating legumes, and if any such samples are found to be impure, nonviable, or misbranded, the results of the tests may be published, together with the names of the manufacturers and of the persons by whom the cultures were offered for sale **[\$39,060]** (*same acts*) ..... 49,060.00

Appropriation for 1911.....	\$23,725	Estimate for 1912.....	\$26,145
Appropriation for 1912.....	26,145	Estimate for 1913.....	26,145
Appropriation for 1913.....	36,145	Estimate for 1914.....	35,305
Appropriation for 1914.....	30,000	Estimate for 1915.....	35,000
Appropriation for 1915.....	35,000	Estimate for 1916.....	48,000
Appropriation for 1916.....	42,000	Estimate for 1917.....	42,000
Appropriation for 1917.....	42,000	Estimate for 1918.....	39,300
Appropriation for 1918.....	39,300	Estimate for 1919.....	39,300
Appropriation for 1919.....	39,300	Estimate for 1920.....	39,060
Appropriation for 1920.....	39,060	Estimate for 1921.....	49,060



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

NOTE.—There is an increase in the above item of \$10,000, which it is planned to use for crop-rotation studies in connection with fertilizer tests. Tests of fertilizers carried on in Maryland since 1914 have shown that the choice of crop combinations to be used in a rotation is exceedingly important in agricultural production. The systematic methods of field study which have been developed have been applied at other points, especially in connection with rotations including the tobacco crop. Differences in the effects of preceding crops frequently affect the yield of a growing crop to a remarkable degree, and it is impossible from present agronomic knowledge to predict the effects of different crop successions. The subject is a large and exceedingly important one, and it is urgent that facilities be provided for undertaking the work in different regions so as to include in these studies a wider range of leading crops and soil types than has been possible with the funds at present available.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
		<i>Number.</i>	<i>Number.</i>
Salaries:			
Soil biologist.....per annum.....	\$3,000.00	1	1
Soil mycologist.....do.....	2,580.00	1	1
Physiologist.....do.....	3,240.00	1 (pt. time)	..
Physiologist.....do.....	3,000.00	..	1 (pt. time)
Physiologists.....do.....	2,460.00	1	..
Physiologists.....do.....	2,280.00	2	3 (pt. time)
Physiologists.....do.....	2,040.00	1	2
Physiologist.....do.....	1,920.00	1	1
Scientific assistant.....do.....	1,980.00	1	..
Scientific assistant.....do.....	1,620.00	1 (new)	..
Scientific assistant.....do.....	1,500.00	1	..
Scientific assistant.....do.....	1,440.00	1 (new)	..
Assistant.....do.....	2,280.00	1 (new)	..
Assistant.....do.....	2,040.00	1	..
Assistants.....do.....	1,500.00	2 (1 new)	..
Assistant.....do.....	1,400.00	1	..
Assistant.....do.....	1,200.00	1	1
Assistant.....do.....	1,100.00	1 (new)	..
Assistant.....do.....	720.00	..	1
Junior chemist.....do.....	1,200.00	1	1
Clerk.....do.....	1,200.00	..	1 (temp.)
Clerks.....do.....	1,100.00	..	2 (temp.)
Wages:			
Miscellaneous temporary labor—			
\$900 to \$540.....do.....		3	4
\$45.....per month.....		1	..
\$3.50.....per diem.....		1	..
		26	19
Salaries.....		\$26,790.00	\$21,682.79
Wages.....		3,450.00	1,550.34
Other objects of expenditure:			
Stationery.....		1,200.00	596.44
Traveling expenses.....		6,500.00	969.20
Equipment and material.....		5,800.00	3,294.09
Miscellaneous items.....		5,320.00	6,343.10
Total.....		49,060.00	34,435.96





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (87) For soil-fertility investigations into organic causes of infertility and remedial measures, maintenance of productivity, properties and composition of soil humus, and the transformation and formation of soil humus by soil organisms **[\$35,060]** (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) ----- **\$55,060.00**

Appropriation for 1916.....	\$32,700	Estimate for 1916.....	\$32,700
Appropriation for 1917.....	35,200	Estimate for 1917.....	35,200
Appropriation for 1918.....	36,260	Estimate for 1918.....	36,260
Appropriation for 1919.....	36,260	Estimate for 1919.....	36,260
Appropriation for 1920.....	35,060	Estimate for 1920.....	35,060
		Estimate for 1921.....	55,060

NOTE.—There is an increase in this item of \$20,000, which it is desired to use in meeting the increasing demand for information regarding new fertilizer materials. During the past few years heavy losses have resulted to farmers through the application of fertilizers regarding which no experience from their use was available. Many of these fertilizer materials were of comparatively little value and some were actually injurious. New nitrogen products will undoubtedly appear in fertilizers during the next few years, and these should be investigated promptly. It is proposed to investigate and give field tests to all materials representing new sources of potash, phosphoric acid, and nitrogen as they appear in the fertilizer market from time to time. The increase requested will provide for necessary labor to carry out field experiments, the purchase of fertilizers and fertilizer materials, the employment of two laboratory assistants for conducting the investigations, and laboratory, field, and miscellaneous expenses.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Biochemist in charge.....per annum.....	\$3,750.00	1	1
Biochemist.....do.....	2,880.00	1	1
Biochemist.....do.....	2,640.00	1	1
Biochemists.....do.....	2,520.00	2	1
Biochemist.....do.....	2,400.00	1 (new)	1
Biochemists.....do.....	2,280.00	1	3
Biochemist.....do.....	2,160.00	1	1
Biochemists.....do.....	2,040.00	5	2
Biochemist.....do.....	1,800.00	1	1
Biochemist.....do.....	1,440.00	1	1
Biochemist.....do.....	1,200.00	1	1
Physiologist.....do.....	2,220.00	1	1
Scientific assistant.....do.....	1,440.00	1	1
Assistant, collaborators, and charwoman— \$500 to \$1.....do.....		1	2
<b>Wages:</b>			
Miscellaneous temporary labor— \$300.....do.....			1
\$65.....per month.....			1
\$3.50 to \$1.25.....per diem.....			5
\$0.42 to \$0.30.....per hour.....			3
		18	26
Salaries.....		\$38,850.00	\$25,795.26
Wages.....			699.91
<b>Other objects of expenditure:</b>			
Traveling expenses.....		3,500.00	3,153.33
Equipment and material.....		3,500.00	1,265.15
Miscellaneous items.....		6,210.00	4,753.14
Construction work.....		13,000.00	
<b>Total .....</b>		<b>55,060.00</b>	<b>35,666.79</b>

<sup>1</sup> This construction work consists of the following building: Temporary frame fertilizer storage and mixing shed at the Arlington Farm, 20 by 30 by 20, with gable roof 10 feet high, 15,000 cubic feet, at 20 cents per cubic foot, \$3,000.



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Bureau of Plant Industry—Continued.

- (88) For acclimatization and adaptation investigations of cotton, corn, and other crops introduced from tropical regions, and for the improvement of cotton and other fiber plants by cultural methods, breeding, and selection, and for determining the feasibility of increasing the production of hard fibers outside of the continental United States, \$104,410: *Provided*, That the limitation in this Act as to the cost of farm buildings be increased to \$2,500 in so far as it applies to this paragraph: *Provided further*, That not less than \$7,500 of this sum may be used for experiments in cotton-seed interbreeding: *And provided further*, That of this amount \$3,000 may be used for experiments in the production of New Zealand flax in the United States and for its utilization in the manufacture of binder twine (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*)..... \$104,410.00

Appropriation for 1911.....	\$34,670	Estimate for 1912.....	\$34,670
Appropriation for 1912.....	34,670	Estimate for 1913.....	31,000
Appropriation for 1913.....	33,300	Estimate for 1914.....	43,300
Appropriation for 1914.....	38,000	Estimate for 1915.....	45,000
Appropriation for 1915.....	38,000	Estimate for 1916.....	40,580
Appropriation for 1916.....	37,580	Estimate for 1917.....	42,580
Appropriation for 1917.....	42,580	Estimate for 1918.....	42,580
Appropriation for 1918.....	82,510	Estimate for 1919.....	75,010
Appropriation for 1919.....	107,510	Estimate for 1920.....	107,510
Appropriation for 1920.....	104,410	Estimate for 1921.....	104,410

## Crop acclimatization.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Bionomists in charge.....per annum.....	\$4,500.00	1	..
Bionomists in charge.....do.....	4,000.00	..	1
Botanist in charge of fiber plants.....do.....	3,500.00	1	1
Botanist.....do.....	3,240.00	1	1
Botanists.....do.....	2,520.00	2	1
Botanist.....do.....	2,280.00	..	1
Specialist in fiber production.....do.....	3,240.00	1	1
Scientific assistants.....do.....	1,500.00	1 (new)	..
Scientific assistants.....do.....	1,440.00	2	..
Agriculturist.....do.....	2,500.00	1	1
Physicist.....do.....	1,600.00	..	1 (temp.)
Assistant.....do.....	2,520.00	1	..
Assistant.....do.....	2,280.00	..	1
Assistant.....do.....	1,800.00	1	1
Assistant.....do.....	1,680.00	1	1
Assistant.....do.....	1,560.00	1	..
Assistant.....do.....	1,440.00	1	1
Assistant.....do.....	1,400.00	1	1
Assistants.....do.....	1,200.00	3 (1 new)	2
Assistant.....do.....	1,080.00	1	1
Assistant.....do.....	1,000.00	1	1
Farm superintendent.....do.....	2,280.00	1	1
Agents.....do.....	2,000.00	1 (pt. time)	1
Agents.....do.....	1,440.00	1	1
Clerks.....do.....	1,600.00	..	1
Clerks.....do.....	1,200.00	..	1
Clerks.....do.....	1,000.00	..	1
Clerk, messenger, laboratory aid and collaborators—			
\$480 to \$1.....do.....		3	4
\$75 to \$1.....per month.....		..	2
\$0.50.....per hour.....		..	1
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$900 to \$720.....per annum.....		8	..
\$75 to \$60.....per month.....		..	8
\$3 to \$0.55.....per diem.....		..	28
\$0.37½ to \$0.10.....per hour.....		..	9
		35	74
Salaries.....		\$52,235.00	\$41,151.41
Wages.....		2,500.00	2,930.47
<b>Other objects of expenditure:</b>			
Stationery.....		1,400.00	1,179.35
Traveling expenses.....		14,920.00	12,539.13
Equipment and material.....		11,500.00	7,213.61
Miscellaneous items.....		11,355.00	20,531.94
<b>Total.....</b>		<b>93,910.00</b>	<b>85,545.91</b>





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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General Expenses, Bureau of Plant Industry—Continued.

Cottonseed interbreeding.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Plant breeder.....per annum...	\$2,520.00	1	1
Assistant.....do.....	1,920.00	1	1
Assistant.....do.....	1,200.00	1	1
Assistant.....do.....	1,080.00	1	..
Assistant.....do.....	1,000.00	1	..
Assistant.....do.....	900.00	1	..
Farm superintendent.....do.....	1,620.00	1	1
Wages:			
Miscellaneous temporary labor—			
\$75 to \$60.....per month.....		3	3
\$1.50.....per diem.....		1	1
		4	8
Salaries.....		\$4,600.00	\$3,779.67
Wages.....			1,397.00
Other objects of expenditure:			
Traveling expenses.....		500.00	205.74
Equipment and material.....		1,500.00	..
Miscellaneous items.....		900.00	1,743.38
Total.....		7,500.00	7,125.79

New Zealand flax.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Scientific assistant.....per annum...	\$1,500.00	1 (new)	..
		1	..
Salaries.....		\$1,500.00	..
Other objects of expenditure:			
Traveling expenses.....		1,000.00	\$150.00
Equipment and material.....		300.00	..
Miscellaneous items.....		200.00	..
Total.....		3,000.00	150.00

- (89) For the investigation, testing, and improvement of plants yielding drugs, spices, poisons, oils, and related products and by-products, and for general physiological and fermentation investigations [ \$58,820 ] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) ----- \$59,820.00

Appropriation for 1911.....	\$42,970	Estimate for 1912.....	\$49,430
Appropriation for 1912.....	46,930	Estimate for 1913.....	46,930
Appropriation for 1913.....	46,930	Estimate for 1914.....	58,330
Appropriation for 1914.....	50,000	Estimate for 1915.....	59,380
Appropriation for 1915.....	55,380	Estimate for 1916.....	51,320
Appropriation for 1916.....	59,380	Estimate for 1917.....	48,820
Appropriation for 1917.....	53,820	Estimate for 1918.....	58,820
Appropriation for 1918.....	58,820	Estimate for 1919.....	58,820
Appropriation for 1919.....	58,820	Estimate for 1920.....	58,820
Appropriation for 1920.....	58,820	Estimate for 1921.....	59,820

NOTE.—There is an increase in the above item of \$1,000. More adequate provision should be made for the poisonous plant investigations of the bureau. The funds available for technical botanical investigations, in collaboration with the stock poisoning investigations of the Bureau of Animal Industry, have been insufficient to cover the necessary travel expenses. Incident to the development of cattle raising in the South new problems have arisen with relation to poisonous plants in regions where closer grazing is being practiced which require investigation.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Physiologist in charge of plant physiological investigations, per annum..	\$3,750.00	1	1		
Physiologist in charge of drug and poisonous plant investigations.....do.....	3,500.00	1	..		
Physiologist in charge of drug and poisonous plant investigations.....do.....	3,240.00	..	1		
Physiologist.....do.....	3,000.00	1 (pt. time)	1 (temp.)		
Physiologist.....do.....	2,640.00	1	1		
Physiologist.....do.....	2,040.00	1	1		
Chemical technologist.....do.....	2,760.00	1	1		
Chemical biologist.....do.....	2,640.00	..	1		
Chemical biologists.....do.....	2,400.00	2	1		
Chemical biologist.....do.....	2,040.00	1	1		
Chemical laboratorian.....do.....	1,500.00	1	..		
Specialist.....per month.....	200.00	..	1 (temp.)		
Organic chemist.....per annum.....	2,640.00	1	1		
Agronomist.....do.....	2,040.00	1	1		
Botanist.....do.....	2,040.00	1	1		
Plant pathologist.....do.....	1,800.00	1	1		
Assistant.....do.....	1,680.00	1	1		
Assistants.....do.....	1,440.00	1	2		
Assistants.....do.....	1,200.00	3	4 (1 temp.)		
Assistant.....do.....	1,020.00	..	1 (temp.)		
Junior chemist.....do.....	1,800.00	1	1		
Junior chemist.....do.....	1,440.00	1	1		
Expert.....do.....	2,040.00	1	..		
Laboratory aid, student assistant, and collaborators—					
\$900 to \$12.....do.....		2	2		
\$25 to \$1.....per month.....		..	3		
Wages:					
Miscellaneous temporary labor—					
\$75.....per month.....		..	2		
\$6 to \$2.....per diem.....		8	5		
\$0.25 to \$0.15.....per hour.....		..	22		
		32	58		
Salaries.....		\$40,574.00	\$40,536.01		
Wages.....		2,100.00	1,384.31		
Other objects of expenditure:					
Stationery.....		500.00	492.02		
Traveling expenses.....		5,000.00	3,908.07		
Equipment and material.....		8,000.00	3,515.58		
Miscellaneous items.....		3,646.00	7,431.45		
Total.....		59,820.00	57,267.44		





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																												
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																														
(90) For crop technological investigations, including the study of plant-infesting nematodes ( <i>acts Apr. 15, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> )-----	\$24, 940. 00																																																																																													
Appropriation for 1911..... \$13, 030	Estimate for 1912..... \$10, 610																																																																																													
Appropriation for 1912..... 10, 610	Estimate for 1913..... 10, 010																																																																																													
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Appropriation for 1915..... 10, 010	Estimate for 1916..... 12, 270																																																																																													
Appropriation for 1916..... 19, 770	Estimate for 1917..... 25, 770																																																																																													
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<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Agricultural technologist.....per annum..</td><td>\$4, 000. 00</td><td>1</td><td>1</td></tr><tr><td>Technologist.....do.....</td><td>3, 000. 00</td><td>1</td><td>1</td></tr><tr><td>Plant morphologist.....do.....</td><td>2, 760. 00</td><td>1</td><td>1</td></tr><tr><td>Nematologist.....do.....</td><td>2, 400. 00</td><td>1</td><td>1</td></tr><tr><td>Pathologist.....do.....</td><td>1, 860. 00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1, 800. 00</td><td>2 (1 new)</td><td>1</td></tr><tr><td>Assistant.....do.....</td><td>1, 440. 00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1, 380. 00</td><td>2</td><td>2</td></tr><tr><td>Assistants.....do.....</td><td>1, 200. 00</td><td>2</td><td>1</td></tr><tr><td>Preparator.....do.....</td><td>1, 090. 00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Preparators, laboratory aids and collaborators—\$960 to \$1.....do.....</td><td></td><td>2</td><td>5 (3 temp.)</td></tr><tr><td></td><td></td><td>14</td><td>15</td></tr><tr><td>Salaries.....</td><td></td><td>\$20, 981. 00</td><td>\$18, 612. 67</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>2, 600. 00</td><td>39. 66</td></tr><tr><td>Equipment and material.....</td><td></td><td>1, 085. 00</td><td>3, 657. 84</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>274. 00</td><td>2, 361. 29</td></tr><tr><td>Total.....</td><td></td><td>21, 940. 00</td><td>24, 671. 46</td></tr></table>			Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		<i>Number.</i>	<i>Number.</i>	Agricultural technologist.....per annum..	\$4, 000. 00	1	1	Technologist.....do.....	3, 000. 00	1	1	Plant morphologist.....do.....	2, 760. 00	1	1	Nematologist.....do.....	2, 400. 00	1	1	Pathologist.....do.....	1, 860. 00	1	1	Assistants.....do.....	1, 800. 00	2 (1 new)	1	Assistant.....do.....	1, 440. 00	1	1	Assistants.....do.....	1, 380. 00	2	2	Assistants.....do.....	1, 200. 00	2	1	Preparator.....do.....	1, 090. 00	..	1 (temp.)	Preparators, laboratory aids and collaborators—\$960 to \$1.....do.....		2	5 (3 temp.)			14	15	Salaries.....		\$20, 981. 00	\$18, 612. 67	Other objects of expenditure:				Traveling expenses.....		2, 600. 00	39. 66	Equipment and material.....		1, 085. 00	3, 657. 84	Miscellaneous items.....		274. 00	2, 361. 29	Total.....		21, 940. 00	24, 671. 46												
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Total.....		21, 940. 00	24, 671. 46																																																																																											
(91) For biophysical investigations in connection with the various lines of work herein authorized ( <i>same acts</i> )-----	32, 500. 00																																																																																													
Appropriation for 1911..... \$15, 255	Estimate for 1912..... \$16, 375																																																																																													
Appropriation for 1912..... 16, 375	Estimate for 1913..... 15, 655																																																																																													
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<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Physicist in charge.....per annum..</td><td>\$4, 000. 00</td><td>1</td><td>1</td></tr><tr><td>Biophysicist.....do.....</td><td>2, 760. 00</td><td>..</td><td>1</td></tr><tr><td>Biophysicist.....do.....</td><td>2, 520. 00</td><td>1</td><td>1</td></tr><tr><td>Biochemist.....do.....</td><td>2, 760. 00</td><td>1</td><td>1</td></tr><tr><td>Assistant.....do.....</td><td>2, 040. 00</td><td>1</td><td>1</td></tr><tr><td>Assistant.....do.....</td><td>1, 620. 00</td><td>1</td><td>1</td></tr><tr><td>Assistant.....do.....</td><td>1, 380. 00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1, 200. 00</td><td>3</td><td>2</td></tr><tr><td>Computer.....do.....</td><td>110. 00</td><td>1</td><td>1</td></tr><tr><td>Wages:</td><td></td><td></td><td></td></tr><tr><td>Miscellaneous temporary labor—\$90 to \$80.....per month..</td><td></td><td>2</td><td>1</td></tr><tr><td>\$3.50 to \$2.80.....per diem..</td><td></td><td>..</td><td>5</td></tr><tr><td>\$0.35 to \$0.25.....per hour..</td><td></td><td>1</td><td>7</td></tr><tr><td></td><td></td><td>13</td><td>23</td></tr><tr><td>Salaries.....</td><td></td><td>\$19, 240. 00</td><td>\$20, 681. 94</td></tr><tr><td>Wages.....</td><td></td><td>500. 00</td><td>585. 92</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>2, 300. 00</td><td>2, 272. 87</td></tr><tr><td>Equipment and material.....</td><td></td><td>2, 000. 00</td><td>1, 848. 47</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>8, 460. 00</td><td>5, 890. 78</td></tr><tr><td>Total.....</td><td></td><td>32, 500. 00</td><td>31, 279. 98</td></tr></table>			Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		<i>Number.</i>	<i>Number.</i>	Physicist in charge.....per annum..	\$4, 000. 00	1	1	Biophysicist.....do.....	2, 760. 00	..	1	Biophysicist.....do.....	2, 520. 00	1	1	Biochemist.....do.....	2, 760. 00	1	1	Assistant.....do.....	2, 040. 00	1	1	Assistant.....do.....	1, 620. 00	1	1	Assistant.....do.....	1, 380. 00	1	1	Assistants.....do.....	1, 200. 00	3	2	Computer.....do.....	110. 00	1	1	Wages:				Miscellaneous temporary labor—\$90 to \$80.....per month..		2	1	\$3.50 to \$2.80.....per diem..		..	5	\$0.35 to \$0.25.....per hour..		1	7			13	23	Salaries.....		\$19, 240. 00	\$20, 681. 94	Wages.....		500. 00	585. 92	Other objects of expenditure:				Traveling expenses.....		2, 300. 00	2, 272. 87	Equipment and material.....		2, 000. 00	1, 848. 47	Miscellaneous items.....		8, 460. 00	5, 890. 78	Total.....		32, 500. 00	31, 279. 98
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																																																											
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (92) For studying and testing commercial seeds, including the testing of samples of seeds of grasses, clover, or alfalfa, and lawn-grass seeds secured in the open market, and where such samples are found to be adulterated or misbranded the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale, and for carrying out the provisions of the act approved Aug. 24, 1912, entitled "An act to regulate foreign commerce by prohibiting the admission into the United States of certain adulterated grain and seeds unfit for seeding purposes" (Thirty-seventh Statutes at Large, page 506) **[\$36,680]** (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) ----- \$49,580.00

Appropriation for 1911.....	\$25,830	Estimate for 1912.....	\$26,650
Appropriation for 1912.....	26,650	Estimate for 1913.....	23,530
Appropriation for 1913.....	23,530	Estimate for 1914.....	29,370
Appropriation for 1914.....	26,000	Estimate for 1915.....	28,700
Appropriation for 1915.....	28,700	Estimate for 1916.....	28,700
Appropriation for 1916.....	28,700	Estimate for 1917.....	28,700
Appropriation for 1917.....	31,700	Estimate for 1918.....	34,700
Appropriation for 1918.....	34,700	Estimate for 1919.....	36,680
Appropriation for 1919.....	36,680	Estimate for 1920.....	36,680
Appropriation for 1920.....	36,680	Estimate for 1921.....	49,580

NOTE.—There is an increase in the above item of \$12,900. This amount is necessary in order to provide increased facilities for conducting the seed-testing work of the bureau, which is of unusual importance at the present time, owing to the large quantities of inferior seed coming into this country from abroad and the necessity of giving closer attention to the examination of this seed, with a view to the exclusion of such as falls below the prescribed standard. The increase recommended will provide for 8 additional assistants, for necessary purchases of seed in the open market, and increased laboratory facilities for examining seed at New York, through which port the greater part of the imported European seed enters the United States.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Botanist in charge.....per annum.....	\$3,500.00	1	1
Botanist in charge.....do.....	3,240.00	1	1
Botanist.....do.....	2,400.00	1	1
Botanist.....do.....	2,280.00	1	1
Scientific assistant.....do.....	1,920.00	1	1
Scientific assistants.....do.....	1,800.00	1	2
Scientific assistants.....do.....	1,620.00	4	2
Scientific assistant.....do.....	1,500.00	1	1
Scientific assistants.....do.....	1,440.00	2	3
Scientific assistants.....do.....	1,260.00	..	2 (temp.)
Scientific assistants.....do.....	1,200.00	6 (5 new)	..
Scientific assistants.....do.....	1,140.00	4	5
Scientific assistants.....do.....	1,800.00	1 (new)	..
Assistant.....do.....	750.00	1 (new)	..
Messenger boy.....do.....	480.00	1 (temp.)	..
Collaborators.....per month.....	1.00	..	3
Collaborators.....per hour.....	.60	..	145
		24	166
Salaries.....		\$36,050.00	\$26,041.43
Other objects of expenditure:			
Stationery.....		1,380.00	417.68
Traveling expenses.....		3,050.00	5,201.89
Equipment and material.....		600.00	2,270.79
Miscellaneous items.....		8,500.00	3,137.51
Total.....		49,580.00	37,069.30





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.	
<i>General Expenses, Bureau of Plant Industry—Continued.</i>			
(93) For the investigation and improvement of cereals and methods of cereal production, and the study of cereal diseases, and for the investigation of the cultivation and breeding of flax for seed purposes, including a study of flax diseases, and for the investigation and improvement of broom corn and methods of broom-corn production, <del>["\$452,505"]</del> <i>\$524,705</i> : <i>Provided</i> , That \$40,000 shall be set aside for the study of corn improvement and methods of corn production: <i>Provided also</i> , That <del>["\$100,000"]</del> <i>\$91,200</i> shall be set aside for the investigation and control of the diseases of wheat, oats, and barley known as black rust, <i>leaf rust</i> , and stripe rust: <i>Provided also</i> , That <del>["\$150,000"]</del> <i>\$147,200</i> shall be set aside for the location of and destruction of the barberry bushes and other vegetation from which such rust spores originate: <i>Provided also</i> , That \$25,000 shall be set aside for the investigation of corn root and stalk diseases and for the inauguration of such control measures as may be found necessary (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) -----	\$524,705.00		
Appropriation for 1911.....	\$61,925	Estimate for 1912.....	\$77,925
Appropriation for 1912.....	77,925	Estimate for 1913.....	75,765
Appropriation for 1913.....	89,765	Estimate for 1914.....	104,925
Appropriation for 1914.....	104,925	Estimate for 1915.....	135,405
Appropriation for 1915.....	135,405	Estimate for 1916.....	134,505
Appropriation for 1916.....	142,005	Estimate for 1917.....	147,005
Appropriation for 1917.....	161,505	Estimate for 1918.....	176,505
Appropriation for 1918.....	185,505	Estimate for 1919.....	186,505
Appropriation for 1919.....	441,505	Estimate for 1920.....	432,505
Appropriation for 1920.....	452,505	Estimate for 1921.....	524,705
<p>NOTE.—There is an apparent increase in this item of \$72,200, but taking into consideration transfers to the statutory roll of this bureau aggregating \$11,720, and the transfer of 1 fireman at \$1,080 to the statutory roll of the Office of the Secretary, the actual increase is \$85,000. This amount is desired for extending the following lines of work:</p> <p>(a) \$35,000 for investigations in the culture and breeding of cereals. The recent war-time necessity for increasing production of cereals has emphasized certain shortcomings of the varieties commonly grown. For example, the lack of winter hardiness was shown by the unprecedented winter-killing of wheat during the winter of 1916-17, and the need of adapted, nonshattering varieties for certain regions was demonstrated. Besides the development of suitable varieties to overcome these deficiencies, it is important that rust and smut resistant strains be secured, with a view to control these serious diseases, which when epidemic cause almost incredible losses; and that other desirable characters and qualities which would have great economic value under conditions existing in different parts of the country be established through breeding.</p> <p>(b) \$50,000 for investigations in the control of wheat scab or blight. This is one of the most serious wheat diseases in the central and eastern United States, and during the past season was unusually severe especially in the winter wheat regions east of the Great Plains area. From practically all these States come reports of great reductions in yields from earlier estimates, and, while climatic conditions and other diseases have been partly responsible for these reductions in yield, by far the greater portion of these enormous losses was unquestionably due to scab. In a large number of fields the crop was a total loss. Investigation to date shows that the problem is complex. At least five species of fungi are found to cause wheat scab. Very little investigation of the disease can be carried on under present funds, including the fund for take-all, flag smut, and related diseases.</p> <p>The proviso for black and stripe rust is reduced from \$100,000 to \$91,200 and the proviso for barberry eradication from \$150,000 to \$147,200, due to transfers to the statutory roll.</p> <p>The black rust and stripe rust proviso is amended by the insertion of the words "leaf rust," so as to read: "<i>Provided also</i>, That \$91,200 shall be set aside for the investigation and control of the diseases of wheat, oats, and barley known as black rust, leaf rust, and stripe rust." Investigation of leaf rust could be carried on very advantageously in connection with studies of black rust and stripe rust. During the past few years leaf rust has been causing steadily increasing losses. It seems desirable, therefore, that these closely related diseases be included under the same general authority.</p>			





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
<i>Cereal investigations.</i>					
Employees.	Rate.	Estimated, 1920.	Expended, 1919.		
Salaries:		Number.	Number		
Cerealist in charge.....per annum..	\$4,000.00	1	..		
Cerealist in charge.....do.....	3,500.00	..	1 (pt. time)		
Physiologist.....do.....	3,500.00	1	..		
Agronomists.....do.....	3,240.00	2	1		
Agronomist.....do.....	3,000.00	1	1		
Agronomists.....do.....	2,760.00	1	2 (pt. time)		
Agronomist.....do.....	2,400.00	1	1		
Agronomist.....do.....	2,340.00	1	..		
Agronomist.....do.....	2,280.00	1	1		
Agronomist.....do.....	2,260.00	..	1 (pt. time)		
Agronomists.....do.....	2,040.00	1	2		
Pathologists.....do.....	3,000.00	2	..		
Pathologists.....do.....	2,760.00	..	2 (pt. time)		
Pathologist.....do.....	2,520.00	1	1		
Pathologists.....do.....	2,400.00	1	2 (1 pt. time)		
Pathologists.....do.....	2,250.00	..	1 (pt. time)		
Pathologists.....do.....	2,040.00	2	2 (pt. time)		
Pathologists.....do.....	2,000.00	1	..		
Pathologists.....do.....	1,800.00	..	2 (pt. time)		
Pathologists.....do.....	1,620.00	1	3 (pt. time)		
Pathologists.....do.....	1,600.00	1	..		
Pathologists.....do.....	1,500.00	7 (2 pt. time)	4 (pt. time)		
Pathologist.....do.....	1,200.00	1	..		
Farm superintendent.....do.....	2,520.00	1	1		
Farm superintendent.....do.....	2,280.00	1	1		
Assistant.....do.....	2,520.00	1	..		
Assistants.....do.....	2,220.00	2	2 (pt. time)		
Assistants.....do.....	1,860.00	2	2		
Assistants.....do.....	1,800.00	4	3		
Assistant.....do.....	1,700.00	1	1		
Assistant.....do.....	1,680.00	1	1		
Assistants.....do.....	1,620.00	2	5 (2 pt. time)		
Assistants.....do.....	1,600.00	1	..		
Assistants.....do.....	1,500.00	7	4 (temp.)		
Assistants.....do.....	1,440.00	5	3		
Assistants.....do.....	1,380.00	1	1		
Assistants.....do.....	1,200.00	2	4 (pt. time)		
Assistant.....do.....	1,080.00	1	..		
Assistant.....do.....	1,020.00	1	..		
Agriculturist.....do.....	1,700.00	1	1		
Agent.....do.....	2,250.00	1	..		
Agent.....do.....	1,800.00	..	1		
Agent.....do.....	1,500.00	..	1 (pt. time)		
Agent.....do.....	1,450.00	1	..		
Agent.....do.....	1,440.00	1	1		
Agent.....do.....	1,350.00	..	1		
Agents.....do.....	1,200.00	2	..		
Agent.....do.....	1,100.00	1	..		
Agents.....do.....	1,000.00	1	2 (1 pt. time)		
Junior chemist.....do.....	1,200.00	..	1 (temp.)		
Clerks.....do.....	1,200.00	..	9 (temp.)		
Teamster.....per month..	100.00	..	1		
Assistants, agents, collaborators, care-takers, and mess cooks—					
\$900 to \$300.....per annum..		19	9 (5 temp.)		
\$45 to \$1.....per month..		..	12 (3 temp.)		
\$5 to \$4.....per diem..		..	2 (temp.)		
Wages:					
Miscellaneous temporary labor—					
\$780 to \$600.....per annum..		3	1		
\$37.50 to \$40.....per month..		..	20		
\$6 to \$2.....per diem..		..	58		
		90	175		
Salaries.....		\$142,466.00	\$84,431.23		
Wages.....		2,100.00	7,088.95		
Other objects of expenditure:					
Stationery.....		3,500.00	1,051.75		
Traveling expenses.....		54,000.00	17,950.63		
Equipment and material.....		9,000.00	2,592.36		
Telephone and telegraph service.....		1,200.00	468.81		
Miscellaneous items.....		9,039.00	12,213.47		
Total.....		221,305.00	125,797.20		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

*Corn improvement.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Physiologist in charge.....per annum	\$3,000.00	1	1
Physiologists.....do	2,400.00	2	2
Scientific assistant.....do	1,860.00	1	1
Scientific assistant.....do	1,680.00	1	1
Scientific assistants.....do	1,620.00	3	3
Scientific assistant.....do	1,600.00	1	1
Scientific assistants.....do	1,500.00	4	2
Scientific assistants.....do	1,440.00	1	2 (1 temp.)
Scientific assistant.....do	1,380.00	.....	1 (temp.)
Scientific assistant.....do	1,200.00	.....	1 (temp.)
Assistant.....do	1,200.00	.....	1 (pt. time.)
Clerk.....do	1,000.00	.....	1 (temp.)
Agents, collaborators, and messenger boys—			
\$600 to \$1.....do			2
\$3.50 to \$3.....per diem			3
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$1 to \$1.50.....per diem		8	20
\$0.50 to \$0.40.....per hour			3
		22	45
Salaries.....		\$25,240.00	\$21,558.98
Wages.....		2,880.00	288.65
<b>Other objects of expenditure:</b>			
Stationery.....		750.00	390.87
Traveling expenses.....		7,000.00	8,958.95
Equipment and material.....		750.00	563.98
Miscellaneous items.....		3,380.00	4,710.71
<b>Total.....</b>		<b>40,000.00</b>	<b>36,472.14</b>

*Black and stripe rust.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Pathologist.....per annum	\$3,240.00	1	..
Pathologist.....do	3,000.00	1	1 (pt. time.)
Pathologist.....do	2,040.00	..	1 (pt. time.)
Pathologist.....do	1,920.00	1	1 (pt. time.)
Pathologists.....do	1,800.00	7	9 (6 pt. time.)
Pathologists.....do	1,620.00	1	2 (pt. time.)
Pathologists.....do	1,500.00	6 (1 pt. time.)	21 (13 pt. time.)
Pathologist.....do	1,200.00	1	1
Pathologist.....do	1,000.00	..	1
Assistants.....do	1,800.00	2	3 (temp.)
Assistant.....do	1,620.00	1	..
Assistants.....do	1,500.00	11 (8 temp.)	13 (temp.)
Assistant.....do	1,440.00	..	1 (temp.)
Assistants.....do	1,200.00	7 (2 temp.)	4 (temp.)
Assistants.....do	1,100.00	3	..
Assistant.....do	1,020.00	1	1
Agent.....do	1,500.00	1	..
Agent.....do	1,350.00	..	1 (pt. time.)
Agent.....do	1,080.00	1	..
Agent.....do	1,020.00	1	..
Agent.....do	1,000.00	1	..
Clerk.....do	1,400.00	..	1 (pt. time.)
Clerks.....do	1,200.00	..	5 (3 pt. time.)
Clerks.....do	1,100.00	..	2 (1 pt. time.)
Messenger boy, assistants, agents and collaborators—			
\$900 to \$1.....do		6	7
\$5.....per diem		..	2
\$0.60.....per hour		..	1 (temp.)
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$900 to \$720.....per annum		2	1
\$4 to \$2.10.....per diem		..	14
\$0.62 to \$0.20.....per hour		..	22
		54	116
Salaries.....		\$67,710.00	\$34,415.25
Wages.....		1,800.00	1,958.46
<b>Other objects of expenditure:</b>			
Stationery.....		300.00	1,278.51
Traveling expenses.....		18,920.00	18,757.10
Equipment and material.....		1,500.00	1,849.59
Miscellaneous items.....		970.00	20,809.63
<b>Total.....</b>		<b>91,200.00</b>	<b>79,068.54</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
<i>Barberry eradication.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>		
Cerealists.....per annum.....	\$3,500.00	1	1 (pt. time)		
Illustrator.....do.....	2,000.00	1	1		
Pathologist.....do.....	2,520.00	1	1		
Pathologist.....do.....	2,200.00	1	1		
Pathologists.....do.....	2,040.00	1	3 (1 pt. time)		
Pathologists.....do.....	1,800.00	4	13 (8 pt. time)		
Pathologists.....do.....	1,620.00	1	2		
Pathologists.....do.....	1,560.00	1	..		
Pathologists.....do.....	1,500.00	23 (21 temp.)	33 (15 pt. time)		
Assistants.....do.....	1,800.00	2	..		
Assistants.....do.....	1,600.00	..	1 (pt. time)		
Assistants.....do.....	1,560.00	30 (temp.)	24 (18 temp.)		
Assistants.....do.....	1,440.00	..	2 (temp.)		
Assistants.....do.....	1,400.00	..	1 (temp.)		
Assistants.....do.....	1,380.00	..	1 (temp.)		
Assistants.....do.....	1,200.00	34 (33 temp.)	24 (21 temp.)		
Assistants.....do.....	1,100.00	1	..		
Assistants.....do.....	1,080.00	..	1		
Assistants.....do.....	1,000.00	1	..		
Agents.....do.....	2,040.00	..	1 (pt. time)		
Agents.....do.....	1,200.00	..	2 (temp.)		
Clerks.....do.....	1,600.00	..	1		
Clerks.....do.....	1,200.00	..	5 (4 pt. time)		
Clerks.....do.....	1,100.00	..	2		
Messenger boy, clerks, assistants, and collaborators—					
\$900 to \$12.....do.....		11	1		
\$75 to \$1.....per month.....		..	12 (3 temp.)		
\$5.....per diem.....		..	1		
\$0.75 to \$0.50.....per hour.....		..	5 (temp.)		
<b>Wages:</b>					
Miscellaneous temporary labor—					
\$960.....per annum.....		..	2		
\$5 to \$1.75.....per diem.....		..	41		
\$0.65 to \$0.20.....per hour.....		..	55		
		111	236		
Salaries.....		\$86,268.00	\$65,938.99		
Wages.....			3,924.35		
<b>Other objects of expenditure:</b>					
Stationery.....		5,000.00	12,152.85		
Traveling expenses.....		47,000.00	56,812.08		
Equipment and material.....		2,500.00	513.72		
Telephone and telegraph service.....		2,000.00	..		
Miscellaneous items.....		4,432.00	8,886.64		
<b>Total.....</b>		<b>147,200.00</b>	<b>148,228.63</b>		
<i>Corn root and stalk.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>		
Pathologist.....per annum.....	\$2,400.00	1	1		
Pathologist.....do.....	2,250.00	..	1 (temp.)		
Pathologists.....do.....	2,040.00	..	2 (pt. time)		
Pathologist.....do.....	1,920.00	..	1		
Pathologists.....do.....	1,800.00	..	2 (pt. time)		
Assistants.....do.....	1,620.00	3	7 (3 pt. time)		
Assistants.....do.....	1,560.00	1	1		
Assistants.....do.....	1,500.00	2	6 (4 pt. time)		
Assistants.....do.....	1,440.00	..	1		
Assistants.....do.....	1,200.00	3	3 (temp.)		
Assistants.....do.....	1,080.00	..	1		
Agents.....do.....	1,500.00	1	1 (pt. time)		
Agents.....do.....	1,080.00	1	1		
Agents.....do.....	1,000.00	1	1 (pt. time)		
Clerks.....do.....	1,200.00	..	2		
Field assistants and agents—					
\$80 to \$55.....per month.....		2	5		
\$4 to \$3.50.....per diem.....		..	2		
<b>Wages:</b>					
Miscellaneous temporary labor—					
\$5 to \$2.....do.....		..	20		
\$0.40 to \$0.25.....per hour.....		..	6		
		15	64		
Salaries.....		\$18,340.00	\$14,761.44		
Wages.....			883.72		
<b>Other objects of expenditure:</b>					
Stationery.....		200.00	283.46		
Traveling expenses.....		2,300.00	4,327.77		
Equipment and material.....		3,500.00	2,125.43		
Miscellaneous items.....		660.00	2,355.12		
<b>Total.....</b>		<b>25,000.00</b>	<b>24,736.94</b>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (94) To enable the Secretary of Agriculture to meet the emergency caused by the existence in the United States of flag smut of wheat, take-all, helminthosporium, and other destructive soil and seed-infecting diseases of wheat and of other cereals, there is hereby appropriated, out of any moneys in the Treasury not otherwise appropriated, \$50,000, to be used in cooperation with the Plant Disease Survey, investigation, and control authorities of the several States to prevent the further spread of and to eradicate or control these diseases (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) ..... \$50,000.00

Appropriation for 1920.....	\$50,000	Estimate for 1920.....	\$50,000
		Estimate for 1921.....	50,000

Employees.	Rate.	Estimated, 1921.	Expended, 1919. †
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Pathologist.....per annum.....	\$1,800.00	1	--
Pathologists.....do.....	1,500.00	3	--
Scientific assistant.....do.....	1,620.00	1	--
Scientific assistant.....do.....	1,400.00	1	--
Agents.....do.....	1,800.00	2	--
Agent.....do.....	1,620.00	1	--
Agents.....do.....	1,500.00	10 (temp.)	--
Agent.....do.....	1,200.00	1	--
Assistant.....do.....	1,400.00	1	--
Assistants.....do.....	1,200.00	2	--
Pathologist and agent, \$960 to \$660.....do.....		2	--
		25	--
Salaries.....		\$27,910.00	
<b>Other objects of expenditure:</b>			
Stationery.....		500.00	
Traveling expenses.....		18,000.00	
Equipment and material.....		2,000.00	
Telephone and telegraph service.....		1,200.00	
Miscellaneous items.....		390.00	
<b>Total.....</b>		50,000.00	

† No appropriation for fiscal year 1919.

- (95) For the investigation and improvement of tobacco and the methods of tobacco production and handling (*same acts*) . . . 32,000.00

Appropriation for 1911.....	\$22,330	Estimate for 1912.....	\$26,630
Appropriation for 1912.....	26,630	Estimate for 1913.....	26,630
Appropriation for 1913.....	26,630	Estimate for 1914.....	31,630
Appropriation for 1914.....	31,630	Estimate for 1915.....	25,000
Appropriation for 1915.....	25,000	Estimate for 1916.....	27,000
Appropriation for 1916.....	25,000	Estimate for 1917.....	27,500
Appropriation for 1917.....	27,500	Estimate for 1918.....	32,000
Appropriation for 1918.....	32,000	Estimate for 1919.....	32,000
Appropriation for 1919.....	32,000	Estimate for 1920.....	32,000
Appropriation for 1920.....	32,000	Estimate for 1921.....	32,000



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Physiologist in charge.....per annum..	\$3,240.00	1 (pt. time)	1
Technologist.....do.....	2,520.00	1	1
Technologist.....do.....	1,800.00	1	1
Assistant.....do.....	2,040.00	1	1 (temp.)
Assistants.....do.....	1,800.00	2	2
Assistant.....do.....	1,680.00	..	1
Assistants.....do.....	1,620.00	2	..
Assistant.....do.....	1,500.00	..	1
Assistant.....do.....	1,440.00	1	..
Assistants.....do.....	1,260.00	1	1
Assistant.....do.....	1,200.00	1	3 (2 temp.)
Agent.....do.....	1,200.00	1	1
Agents and collaborators—			
\$900 to \$300.....do.....		2	2 (1 temp.)
\$50 to \$1.....per month..		2	5 (1 temp.)
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$75 to \$60.....do.....		1	4
\$3.50 to \$1.60.....per diem..		1	2
		18	26
Salaries.....		\$21,954.00	\$21,264.31
Wages.....		1,250.00	1,891.27
<b>Other objects of expenditure:</b>			
Traveling expenses.....		3,500.00	3,019.97
Equipment and material.....		3,971.00	907.55
Miscellaneous items.....		1,325.00	4,396.68
<b>Total.....</b>		<b>32,000.00</b>	<b>31,479.78</b>

- (96) For the breeding and physiological study of alkali-resistant and drought-resistant crops **[\$24,280]** (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1) ----- \$23,080.00

Appropriation for 1911.....	\$17,500	Estimate for 1912.....	\$18,140
Appropriation for 1912.....	18,140	Estimate for 1913.....	18,140
Appropriation for 1913.....	18,140	Estimate for 1914.....	19,280
Appropriation for 1914.....	19,280	Estimate for 1915.....	22,280
Appropriation for 1915.....	22,280	Estimate for 1916.....	22,280
Appropriation for 1916.....	22,280	Estimate for 1917.....	22,280
Appropriation for 1917.....	22,280	Estimate for 1918.....	24,280
Appropriation for 1918.....	24,280	Estimate for 1919.....	24,280
Appropriation for 1919.....	24,280	Estimate for 1920.....	24,280
Appropriation for 1920.....	24,280	Estimate for 1921.....	23,080

NOTE.—There is a decrease in this item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Physiologists.....per annum..	\$3,500.00	1	2
Physiologists.....do.....	2,400.00	2 (1 new)	..
Physiologist.....do.....	2,280.00	..	1
Assistant.....do.....	2,000.00	1	..
Assistant.....do.....	1,500.00	1	1
Assistants.....do.....	1,400.00	2	..
Assistant.....do.....	1,260.00	..	1
Assistants.....do.....	1,200.00	3 (1 new)	6 (2 temp.)
Assistant.....do.....	1,080.00	1	..
Map compiler.....do.....	1,100.00	..	1
Translator.....do.....	1,400.00	..	1
Translator.....do.....	1,320.00	..	1
Clerk.....do.....	1,200.00	..	1 (temp.)
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$90 to \$75.....per month..		3	6
\$3 to \$2.....per diem..		..	2
		14	23
Salaries.....		\$17,280.00	\$17,086.27
Wages.....		1,600.00	1,607.48
<b>Other objects of expenditure:</b>			
Stationery.....		300.00	215.22
Traveling expenses.....		2,000.00	1,734.41
Equipment and material.....		1,000.00	662.80
Miscellaneous items.....		900.00	1,322.27
<b>Total.....</b>		<b>23,080.00</b>	<b>22,628.45</b>





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (97) For sugar-plant investigations, including studies of diseases and the improvement of the beet and beet seed, and methods of culture, and to determine for each sugar-beet area the agricultural operations required to insure a stable agriculture, \$94,115: *Provided*, That not less than \$10,000 of this sum shall be used for the development and improvement of American strains of sugar-beet seed and for the establishment of a permanent sugar-beet seed industry in the United States: *Provided further*, That of this sum \$12,500 may be used for investigations in connection with the production of cane and sorghum sirup, including the breeding, culture, and diseases of cane and sorghum, and the utilization of cane and sorghum by-products (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*) ----- \$94,115.00

Appropriation for 1911.....	\$23,075	Estimate for 1912.....	\$32,353
Appropriation for 1912.....	32,345	Estimate for 1913.....	30,795
Appropriation for 1913.....	35,795	Estimate for 1914.....	38,595
Appropriation for 1914.....	38,595	Estimate for 1915.....	31,195
Appropriation for 1915.....	31,495	Estimate for 1916.....	41,495
Appropriation for 1916.....	41,495	Estimate for 1917.....	41,495
Appropriation for 1917.....	51,495	Estimate for 1918.....	56,015
Appropriation for 1918.....	56,015	Estimate for 1919.....	64,115
Appropriation for 1919.....	64,115	Estimate for 1920.....	94,115
Appropriation for 1920.....	94,115	Estimate for 1921.....	94,115

*Sugar plants.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Pathologist in charge.....per annum..	\$3,500.00	1 (pt. time)	1 (pt. time)
Pathologist.....do.....	2,500.00	1	1
Pathologists.....do.....	2,280.00	2	1 (pt. time)
Pathologist.....do.....	2,040.00	1	1
Specialist.....do.....	3,000.00	1	1 (pt. time)
Technologist.....do.....	2,760.00	1 (pt. time)	1
Technologist.....do.....	2,280.00	1 (pt. time)	1
Technologist.....do.....	2,000.00	1 (new)	1
Agriculturist.....do.....	2,760.00	1	1
Agriculturist.....do.....	2,280.00	1	1 (pt. time)
Agriculturist.....do.....	2,040.00	1	1
Agriculturist.....do.....	1,920.00	1	1
Agriculturists.....do.....	1,800.00	2 (new)	1
Plant breeder.....do.....	2,000.00	1 (new)	1
Biochemist.....do.....	2,160.00	1	1 (pt. time)
Chemist.....do.....	1,800.00	1	1
Assistants.....do.....	1,800.00	7 (new)	1
Assistant.....do.....	1,740.00	1	1 (pt. time)
Assistant.....do.....	1,440.00	2	1
Assistant.....do.....	1,200.00	1 (new)	1
Assistant.....do.....	1,080.00	1	1
Assistant.....do.....	1,000.00	1	1
Clerks, agents, and collaborators—			
\$900 to \$1.....do.....		4	4 (2 temp.)
\$75 to \$1.....per month.....		4	4
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$85 to \$25.....do.....		16 (6 new)	10
\$6.....per diem.....		1	1
\$0.25.....per hour.....		1	1
		50	34
Salaries.....		\$38,530.00	\$21,374.14
Wages.....		5,030.00	4,238.39
<b>Other objects of expenditure:</b>			
Stationery.....		2,000.00	543.56
Traveling expenses.....		17,000.00	7,308.91
Equipment and material.....		5,000.00	2,034.69
Miscellaneous items.....		4,055.00	5,279.02
<b>Total.....</b>		<b>71,615.00</b>	<b>40,778.71</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
<i>Improving sugar-beet seed.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		<i>Number.</i>	<i>Number.</i>		
Pathologist in charge.....per annum..	\$3,500.00	1 (pt. time)	..		
Technologist.....do.....	2,760.00	1 (pt. time)	..		
Technologist.....do.....	2,500.00	..	1 (pt. time)		
Technologist.....do.....	2,280.00	1 (pt. time)	1 (pt. time)		
Agriculturist.....do.....	1,800.00	1 (pt. time)	1 (pt. time)		
Wages:					
Miscellaneous temporary labor {per diem..	2.00	6	7		
{per hour..	\$0.50 to \$0.20	50	58		
		60	68		
Salaries.....		\$4,126.00	\$3,866.71		
Wages.....		800.00	845.04		
Other objects of expenditure:					
Stationery.....		100.00	89.49		
Traveling expenses.....		2,400.00	2,395.38		
Equipment and material.....		200.00	170.06		
Miscellaneous items.....		2,374.00	1,900.10		
Total.....		10,000.00	9,266.78		
<i>Cane and sorghum sirup.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		<i>Number.</i>	<i>Number.</i>		
Pathologist in charge.....per annum..	\$3,500.00	1 (pt. time)	..		
Technologist.....do.....	2,500.00	1	1		
Agronomist.....do.....	2,280.00	1	1		
Collaborators.....do.....	1.00	1	2		
{per month..	\$10 to \$1	3	3		
Wages:					
Miscellaneous temporary {per month..	\$5.00	1	2		
labor.....{per diem....	2.00	1	1		
{per hour....	.40	..	1		
		9	11		
Salaries.....		\$5,071.00	\$4,741.31		
Wages.....		810.00	2,134.22		
Other objects of expenditure:					
Stationery.....		300.00	280.25		
Traveling expenses.....		2,000.00	1,674.90		
Equipment and material.....		650.00	642.09		
Miscellaneous items.....		3,669.00	2,841.17		
Total.....		12,500.00	12,313.94		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																
General Expenses, Bureau of Plant Industry—Continued.																																																																																																					
(98) For investigations in economic and systematic botany and the improvement and utilization of wild plants and grazing lands ( <i>acts Apr. 18, 1900, vol. 31, pp 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> ) -----				\$22, 200. 00																																																																																																	
Appropriation for 1914.....		\$22, 000	Estimate for 1914.....	\$26, 930																																																																																																	
Appropriation for 1915.....		24, 000	Estimate for 1915.....	24, 000																																																																																																	
Appropriation for 1916.....		24, 000	Estimate for 1916.....	27, 000																																																																																																	
Appropriation for 1917.....		24, 000	Estimate for 1917.....	24, 000																																																																																																	
Appropriation for 1918.....		23, 100	Estimate for 1918.....	26, 100																																																																																																	
Appropriation for 1919.....		23, 100	Estimate for 1919.....	23, 100																																																																																																	
Appropriation for 1920.....		22, 200	Estimate for 1920.....	22, 200																																																																																																	
			Estimate for 1921.....	22, 200																																																																																																	
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="2">Salaries:</td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Botanist in charge..... per annum.....</td><td>\$4, 000. 00</td><td>1</td><td>1</td></tr><tr><td>Botanist..... do.....</td><td>2, 520. 00</td><td>1</td><td>1</td></tr><tr><td>Botanist..... do.....</td><td>1, 980. 00</td><td>1</td><td>1</td></tr><tr><td>Botanists..... do.....</td><td>1, 800. 00</td><td>1</td><td>2</td></tr><tr><td>Botanist..... do.....</td><td>1, 600. 00</td><td>1</td><td>1</td></tr><tr><td>Systematic agrostologist..... do.....</td><td>3, 500. 00</td><td>1</td><td>1</td></tr><tr><td>Systematic agrostologist..... do.....</td><td>3, 240. 00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant..... do.....</td><td>1, 620. 00</td><td>1</td><td>1</td></tr><tr><td>Botanical artist..... do.....</td><td>1, 200. 00</td><td>1</td><td>1</td></tr><tr><td>Assistant..... do.....</td><td>1, 020. 00</td><td>1</td><td>1</td></tr><tr><td>Clerk..... do.....</td><td>1, 000. 00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Assistant and artist—</td><td></td><td></td><td></td></tr><tr><td>\$75..... per month.....</td><td></td><td>1</td><td>1</td></tr><tr><td>\$0.65 to \$0.50..... per hour.....</td><td></td><td>1</td><td>1</td></tr><tr><td></td><td></td><td>11</td><td>12</td></tr><tr><td>Salaries.....</td><td></td><td>\$20, 140. 00</td><td>\$18, 428. 64</td></tr><tr><td colspan="2">Other objects of expenditure:</td><td></td><td></td></tr><tr><td>Stationery.....</td><td></td><td>300. 00</td><td>324. 05</td></tr><tr><td>Traveling expenses.....</td><td></td><td>1, 000. 00</td><td>1, 627. 32</td></tr><tr><td>Equipment and material.....</td><td></td><td>500. 00</td><td>839. 28</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>260. 00</td><td>1, 749. 80</td></tr><tr><td>Total.....</td><td></td><td>22, 200. 00</td><td>22, 969. 09</td></tr></table>						Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		<i>Number.</i>	<i>Number.</i>	Botanist in charge..... per annum.....	\$4, 000. 00	1	1	Botanist..... do.....	2, 520. 00	1	1	Botanist..... do.....	1, 980. 00	1	1	Botanists..... do.....	1, 800. 00	1	2	Botanist..... do.....	1, 600. 00	1	1	Systematic agrostologist..... do.....	3, 500. 00	1	1	Systematic agrostologist..... do.....	3, 240. 00	1	1	Scientific assistant..... do.....	1, 620. 00	1	1	Botanical artist..... do.....	1, 200. 00	1	1	Assistant..... do.....	1, 020. 00	1	1	Clerk..... do.....	1, 000. 00	1	1 (temp.)	Assistant and artist—				\$75..... per month.....		1	1	\$0.65 to \$0.50..... per hour.....		1	1			11	12	Salaries.....		\$20, 140. 00	\$18, 428. 64	Other objects of expenditure:				Stationery.....		300. 00	324. 05	Traveling expenses.....		1, 000. 00	1, 627. 32	Equipment and material.....		500. 00	839. 28	Miscellaneous items.....		260. 00	1, 749. 80	Total.....		22, 200. 00	22, 969. 09
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																																																																		
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Total.....		22, 200. 00	22, 969. 09																																																																																																		
(99) For the investigation and improvement of methods of crop production under subhumid, semiarid, or dry-land conditions, <b>[\$159,000] \$169,000: Provided, That the limitations in this act as to the cost of farm buildings shall not apply to this paragraph: Provided further, That no part of this appropriation shall be used in the free distribution, or propagation for free distribution, of cuttings, seedlings, or trees of willow, box elder, ash, caragana, or other common varieties of fruit, ornamental, or shelter-belt trees in the Northern Great Plains area, except for experimental or demonstration purposes in the States of North and South Dakota west of the one hundredth meridian, and in Montana and Wyoming east of the five-thousand-foot contour line (same acts)</b> -----				169, 000. 00																																																																																																	
Appropriation for 1916.....		\$160, 000	Estimate for 1916.....	\$160, 000																																																																																																	
Appropriation for 1917.....		160, 000	Estimate for 1917.....	160, 000																																																																																																	
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			Estimate for 1921.....	169, 000																																																																																																	
NOTE.—There is an increase in this item of \$10,000, which amount is necessary in order to provide for an additional implement storage building at the Mandan (N. Dak.) station, which is urgently needed; for minor structures of a similar character required at other dry-land stations of the bureau in the Great Plains area; and to meet the increased cost of labor and materials necessary to maintain the work of the stations on its present basis.																																																																																																					



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
<p>The language of this paragraph has been amended by inserting the following proviso after the amount: "<i>Provided, That the limitations of this act as to the cost of farm buildings shall not apply to this paragraph.</i>" This merely restores the item to the form in which it was carried in the agricultural appropriation act for the fiscal year 1919 and prior years. The present limitation of \$1,500 is too low to permit the construction of barns and other buildings of the type needed at the dry-land field stations. The high price of labor and all building material further emphasizes the need for removing this limitation.</p>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		<i>Number.</i>	<i>Number.</i>		
Agriculturist in charge.....per annum..	\$4,500.00	1	..		
Agriculturist in charge.....do.....	4,000.00	..	1		
Agriculturist.....do.....	3,500.00	1	..		
Agriculturist.....do.....	3,240.00	..	1		
Agronomist.....do.....	2,640.00	1	1		
Farm superintendent.....do.....	2,640.00	1	1		
Farm superintendent.....do.....	2,400.00	..	1		
Farm superintendents.....do.....	2,280.00	1	2		
Physiologist.....do.....	2,100.00	1	1		
Assistant.....do.....	2,520.00	1	1		
Assistant.....do.....	2,400.00	1	1		
Assistant.....do.....	2,280.00	1	1		
Assistants.....do.....	2,040.00	8	8		
Assistants.....do.....	1,860.00	3	4 (2 temp.)		
Assistants.....do.....	1,800.00	1	2		
Assistant.....do.....	1,680.00	1	..		
Assistants.....do.....	1,620.00	3	3		
Assistant.....do.....	1,600.00	..	1		
Assistants.....do.....	1,560.00	2	2		
Assistant.....do.....	1,500.00	1	1		
Assistants.....do.....	1,440.00	6	1		
Assistants.....do.....	1,200.00	..	2		
Assistant.....do.....	1,140.00	1	1		
Agents.....do.....	1,800.00	2	2		
Agent.....do.....	1,620.00	1	1		
General mechanic and teamster.....do.....	1,620.00	1	1		
Teamster.....do.....	1,200.00	..	1 (pt. time)		
Clerk.....do.....	1,000.00	..	1 (temp.)		
Orchardist, messenger boy, mechanic, teamsters, col- laborators, caretakers, and mess cooks—					
\$900 to \$480.....do.....		1	2		
\$85 to \$1.....per month..		6	15 (4 temp.)		
\$6.....per diem.....		..	1		
Wages:					
Miscellaneous temporary labor—					
\$1.20.....per annum.....		2	..		
\$90 to \$55.....per month.....		52	120		
\$7.50 to \$1.50.....per diem.....		..	107		
\$1.75.....per hour.....		..	1		
		100	288		
Salaries.....		\$79,230.00	\$70,064.13		
Wages.....		40,605.00	30,930.09		
Other objects of expenditure:					
Traveling expenses.....		10,000.00	9,491.68		
Equipment and material.....		20,000.00	16,156.20		
Miscellaneous items.....		19,165.00	30,874.01		
Total.....		169,000.00	157,516.11		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (100) For investigations in connection with western irrigation agriculture, the utilization of lands reclaimed under the Reclamation Act, and other areas in the arid and semiarid regions **[\$73,580]** (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*)..... \$82,380.00

Appropriation for 1911.....	\$74,380	Estimate for 1912.....	\$73,060
Appropriation for 1912.....	73,060	Estimate for 1913.....	69,600
Appropriation for 1913.....	69,600	Estimate for 1914.....	76,620
Appropriation for 1914.....	75,000	Estimate for 1915.....	70,380
Appropriation for 1915.....	70,380	Estimate for 1916.....	72,880
Appropriation for 1916.....	70,380	Estimate for 1917.....	75,380
Appropriation for 1917.....	75,380	Estimate for 1918.....	78,380
Appropriation for 1918.....	75,380	Estimate for 1919.....	73,580
Appropriation for 1919.....	73,580	Estimate for 1920.....	73,580
Appropriation for 1920.....	73,580	Estimate for 1921.....	82,380

NOTE.—There is an apparent increase in the above item of \$8,800, but, taking into consideration the transfer to the statutory roll of 1 clerk of class 1, the actual increase is \$10,000. This amount is needed in order to meet the increased cost of labor and materials incident to the maintenance on its present basis of the experimental work on reclamation projects.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Agriculturist in charge.....per annum..	\$3,500.00	1	1
Agriculturist.....do.....	1,620.00	1	..
Agriculturist.....do.....	1,440.00	..	1
Farm superintendent.....do.....	2,460.00	1	..
Farm superintendent.....do.....	2,280.00	2	1
Farm superintendent.....do.....	2,220.00	1	..
Farm superintendent.....do.....	2,040.00	1	1
Farm superintendent.....do.....	1,800.00	1	1
Assistant.....do.....	1,860.00	..	1
Assistant.....do.....	1,800.00	1	..
Assistant.....do.....	1,620.00	1	..
Assistant.....do.....	1,600.00	1	..
Assistants.....do.....	1,440.00	5 (7 temp.)	5
Assistant.....do.....	1,200.00	..	1 (temp.)
Clerks.....do.....	1,200.00	..	3 (temp.)
Foreman.....per month..	100.00	..	1
Teamsters.....do.....	100.00	..	2
Teamsters.....do.....	90.00	..	2
Teamsters.....do.....	\$5.00	..	2
Clerk, collaborators, teamsters, caretakers, and mess cooks— \$80 to \$1.....do.....	..	..	16 (7 temp.)
<b>Wages:</b>			
Miscellaneous temporary labor— \$900 to \$720.....per annum..	..	..	5
\$90 to \$50.....per month..	..	56	94
\$3.25 to \$1.....per diem..	..	..	106
\$1.25 to \$0.60.....per hour..	..	..	7
		72	250
Salaries.....		\$28,040.00	\$24,434.63
Wages.....		36,840.00	23,936.84
<b>Other objects of expenditure:</b>			
Stationery.....		300.00	276.27
Traveling expenses.....		3,000.00	2,756.13
Equipment and material.....		11,257.00	9,105.39
Miscellaneous items.....		2,943.00	10,232.73
<b>Total.....</b>		<b>82,380.00</b>	<b>70,741.99</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																				
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																						
(101) For the investigation, improvement, encouragement, and determination of the adaptability to different soils and climatic conditions of pecans, almonds, Persian walnuts, black walnuts, hickory nuts, butternuts, chestnuts, filberts, and other nuts, and for methods of growing, harvesting, packing, shipping, storing, and utilizing the same ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> ) -----	\$20,000.00																																																																					
Appropriation for 1920..... \$20,000	Estimate for 1920..... \$20,000																																																																					
	Estimate for 1921..... 20,000																																																																					
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.<sup>1</sup></th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Nut culturist.....per annum..</td><td>\$2,520.00</td><td>1</td><td>1</td></tr><tr><td>Pomologist.....do.....</td><td>2,280.00</td><td>1</td><td>1</td></tr><tr><td>Plant physiologist.....do.....</td><td>2,520.00</td><td>1 (new)</td><td>..</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,620.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Wages:</td><td></td><td></td><td></td></tr><tr><td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr><tr><td>\$3.50 to \$2.....per diem.....</td><td>..</td><td>..</td><td>4</td></tr><tr><td></td><td></td><td>4</td><td>7</td></tr><tr><td>Salaries.....</td><td></td><td>\$8,500.00</td><td>\$3,898.00</td></tr><tr><td>Wages.....</td><td></td><td></td><td>48.00</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>4,100.00</td><td>1,185.55</td></tr><tr><td>Equipment and material.....</td><td></td><td>2,460.00</td><td>1,194.34</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>4,940.00</td><td>2,126.11</td></tr><tr><td>Total.....</td><td></td><td>20,000.00</td><td>8,452.00</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>	Salaries:		<i>Number.</i>	<i>Number.</i>	Nut culturist.....per annum..	\$2,520.00	1	1	Pomologist.....do.....	2,280.00	1	1	Plant physiologist.....do.....	2,520.00	1 (new)	..	Scientific assistant.....do.....	1,620.00	1	1 (temp.)	Wages:				Miscellaneous temporary labor—				\$3.50 to \$2.....per diem.....	..	..	4			4	7	Salaries.....		\$8,500.00	\$3,898.00	Wages.....			48.00	Other objects of expenditure:				Traveling expenses.....		4,100.00	1,185.55	Equipment and material.....		2,460.00	1,194.34	Miscellaneous items.....		4,940.00	2,126.11	Total.....		20,000.00	8,452.00		
Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>																																																																			
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Total.....		20,000.00	8,452.00																																																																			
<sup>1</sup> The appropriation for fiscal year 1919 was for pecan culture only.																																																																						
(102) For the investigation and improvement of fruits, and the method of fruit growing, harvesting, and, in cooperation with the Bureau of Markets, studies of the behavior of fruits during the processes of marketing and while in commercial storage, [ \$83,200 ] \$88,200: <i>Provided, That \$20,000 of said amount may be used for investigating and developing new grape industries and methods of utilizing grapes heretofore used for the production of alcoholic beverages (same acts)</i> -----	88,200.00																																																																					
Appropriation for 1911..... \$71,615	Estimate for 1912..... \$87,735																																																																					
Appropriation for 1912..... 87,735	Estimate for 1913..... 86,015																																																																					
Appropriation for 1913..... 86,015	Estimate for 1914..... 98,595																																																																					
Appropriation for 1914..... 92,000	Estimate for 1915..... 107,500																																																																					
Appropriation for 1915..... 107,500	Estimate for 1916..... 105,060																																																																					
Appropriation for 1916..... 105,060	Estimate for 1917..... 105,060																																																																					
Appropriation for 1917..... 105,060	Estimate for 1918..... 102,200																																																																					
Appropriation for 1918..... 107,200	Estimate for 1919..... 85,280																																																																					
Appropriation for 1919..... 85,280	Estimate for 1920..... 83,200																																																																					
Appropriation for 1920..... 83,200	Estimate for 1921..... 88,200																																																																					
NOTE.—There is an increase in the above item of \$5,000, which sum will be required to provide for the project "Farm practice in the production of fruits," as well as certain features of the farm organization projects, which it is proposed to transfer to this bureau from the Office of Farm Management incident to the reorganization of the latter office. It will be necessary for the Bureau of Plant Industry to carry on the investigations of farm practice in fruit production and to collaborate with the Office of Farm Management in its studies of the cost of developing orchards and other fruit plantations from the time of planting until these orchards reach profitable production																																																																						





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Bureau of Plant Industry—Continued.

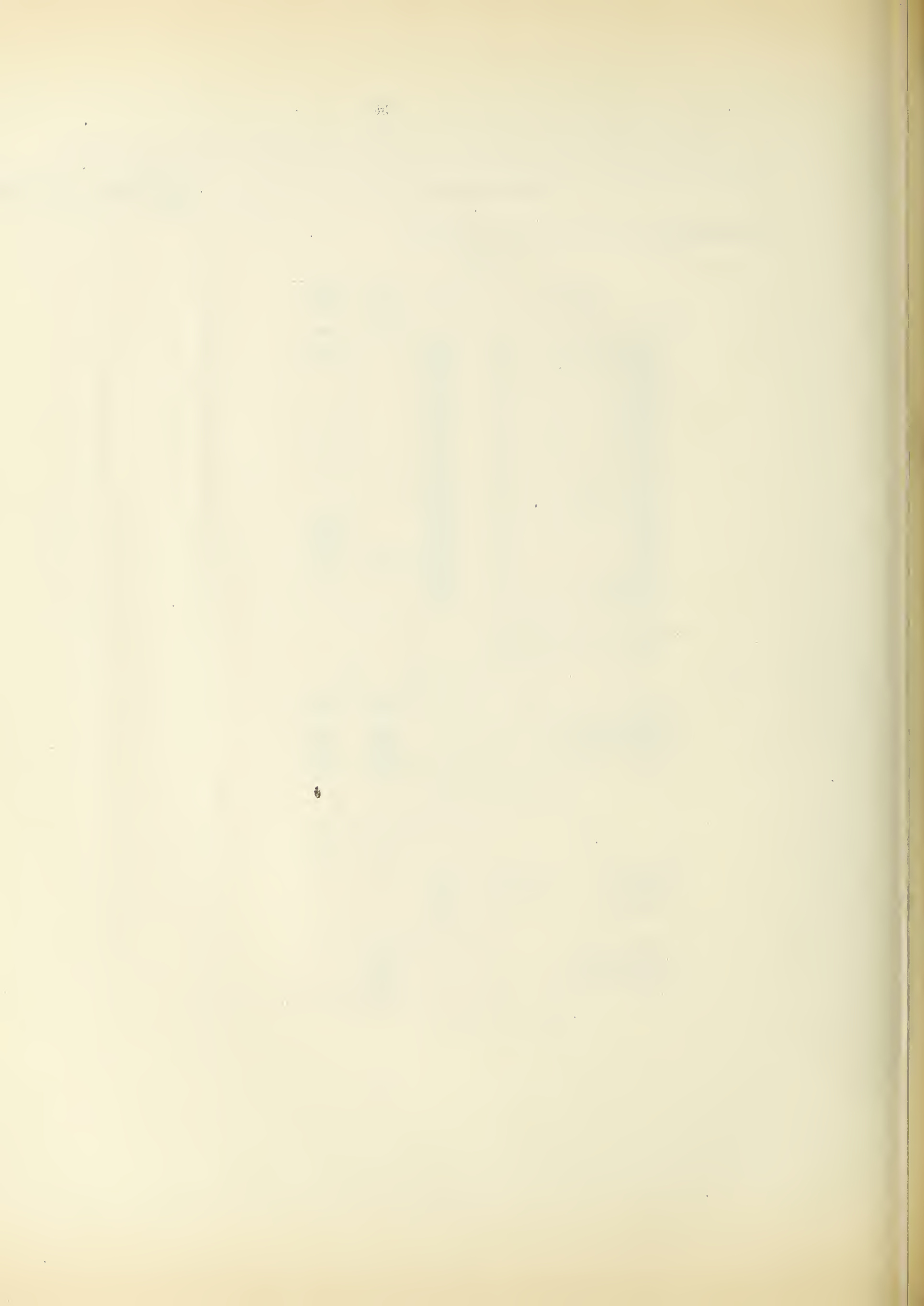
## Pomology.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Horticulturist in charge.....per annum	\$4,500.00	1 (pt. time)	..
Horticulturist in charge.....do	4,000.00	..	1 (pt. time)
Horticulturist.....do	2,280.00	..	1 (pt. time)
Pomologist.....do	3,240.00	1	..
Pomologist.....do	3,000.00	..	1
Pomologists.....do	2,760.00	2	1
Pomologist.....do	2,400.00	1	1
Pomologist.....do	2,280.00	..	1
Physiologist.....do	3,500.00	1	..
Physiologist.....do	3,240.00	..	1
Physiologist.....do	3,000.00	1	..
Physiologist.....do	2,760.00	1	1 (pt. time)
Physiologist.....do	2,160.00	1	..
Physiologist.....do	2,040.00	1	..
Physiologist.....do	1,800.00	1	..
Botanist.....do	2,760.00	1	1 (pt. time)
Microscopist.....do	1,800.00	1	1
Scientific assistants.....do	1,800.00	3 (1 new)	..
Scientific assistants.....do	1,620.00	2	..
Scientific assistants.....do	1,200.00	12	..
Assistant.....do	1,800.00	1	1 (pt. time)
Assistants.....do	1,620.00	..	3 (1 pt. time)
Assistant.....do	1,600.00	..	1 (p. time)
Assistant.....do	1,440.00	..	1 (temp.)
Assistant.....do	1,400.00	..	1 (pt. time)
Assistants.....do	1,200.00	12	3 (pt. time)
Assistants.....do	1,100.00	1 (pt. time)	1 (pt. time)
Assistants.....do	1,080.00	1 (pt. time)	..
Assistants.....do	1,020.00	1	..
Junior chemist.....do	1,800.00	..	1 (pt. time)
Superintendent.....do	1,620.00	..	1
Superintendent.....do	1,500.00	..	1
Messenger boy and collaborators—			
\$720 to \$1.....do	..	..	4
\$1.....per month	..	..	2
Wages:			
Miscellaneous temporary labor—			
\$75.....per annum	..	..	1
\$4 to \$1.....per diem	..	8	6
\$0.40 to \$0.25.....per hour	..	3	4
		57	40
Salaries.....		\$42,170.00	\$41,965.00
Wages.....		1,900.00	685.35
Other objects of expenditure:			
Stationery.....		1,000.00	1,243.23
Traveling expenses.....		9,500.00	9,972.12
Equipment and material.....		7,310.00	3,819.75
Miscellaneous items.....		6,320.00	14,904.64
Total.....		68,200.00	72,590.09

## Grape culture and utilization.

Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>
Salaries:		Number.	
Pomologist.....per annum	\$3,000.00	1	..
Superintendent.....do	1,620.00	1	..
Superintendent.....do	1,500.00	1	..
Horticulturist.....do	2,280.00	1	..
Scientific assistant.....do	1,620.00	1	..
		5	
Salaries.....		\$10,020.00	
Other objects of expenditure:			
Traveling expenses.....		5,900.00	
Equipment and material.....		2,000.00	
Miscellaneous items.....		2,080.00	
Total.....		20,000.00	

<sup>1</sup> No appropriation for fiscal year 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

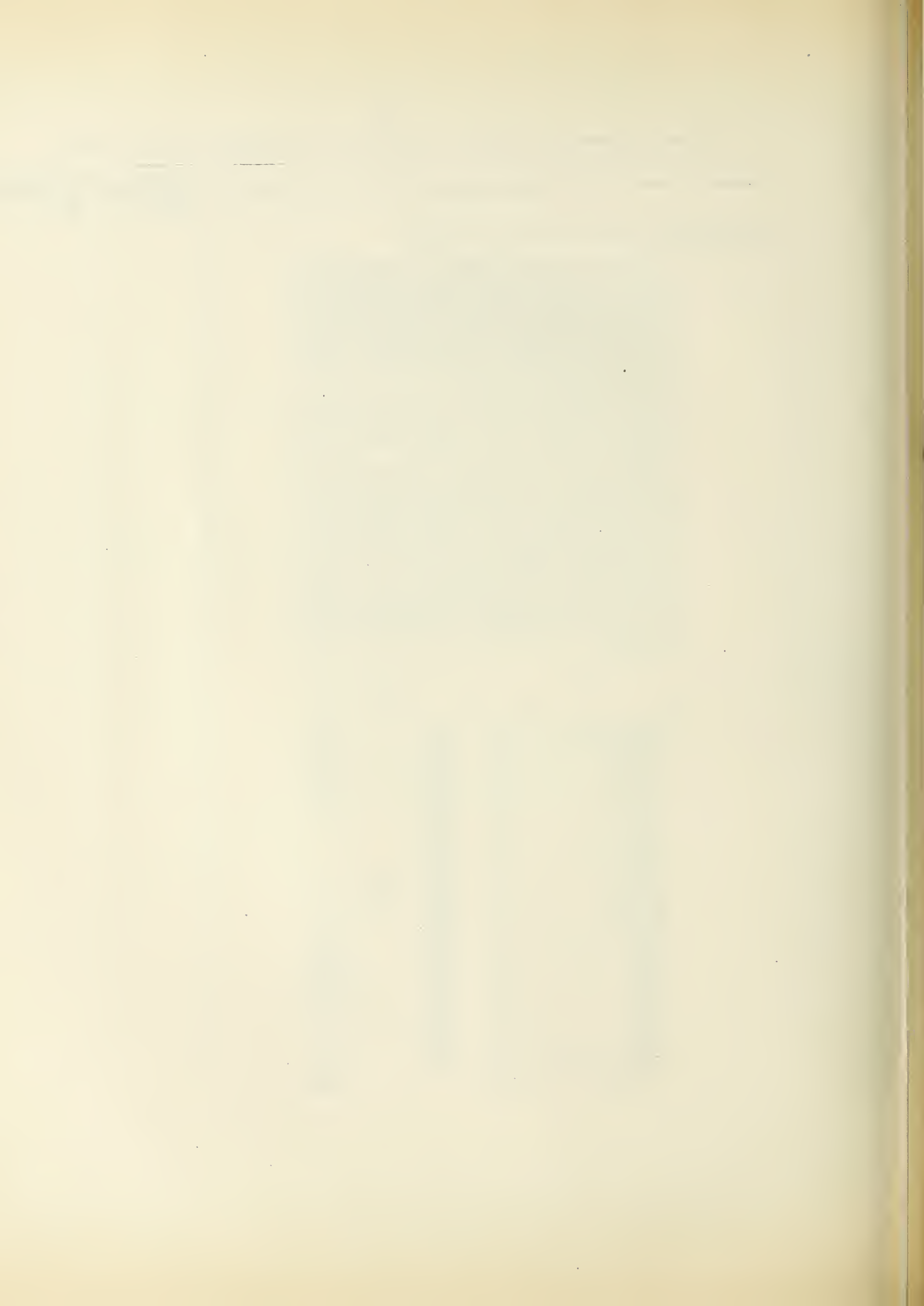
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																								
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																											
(103) To cultivate and care for the gardens and grounds of the Department of Agriculture in the city of Washington, including the keep and lighting of the grounds and the construction, surfacing, and repairing of roadways and walks; and to erect, manage, and maintain conservatories, greenhouses, and plant and fruit propagating houses on the grounds of the Department of Agriculture in the city of Washington ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> )		\$11,690.00																																																									
Appropriation for 1911.....	\$13,340	Estimate for 1912.....	\$13,860																																																								
Appropriation for 1912.....	13,860	Estimate for 1913.....	13,010																																																								
Appropriation for 1913.....	13,010	Estimate for 1914.....	12,410																																																								
Appropriation for 1914.....	11,690	Estimate for 1915.....	11,690																																																								
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<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr> </thead> <tbody> <tr> <td colspan="2">Salaries:</td><td>Number.</td><td>Number.</td></tr> <tr> <td>Assistant in charge.....per annum..</td><td>\$2,640.00</td><td>1</td><td>1</td></tr> <tr> <td>Mechanic.....per diem..</td><td>4.48</td><td>..</td><td>1</td></tr> <tr> <td colspan="2">Wages:</td><td></td><td></td></tr> <tr> <td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr> <tr> <td>\$1.88 to \$4.00.....do.....</td><td></td><td>6</td><td>7</td></tr> <tr> <td></td><td></td><td>7</td><td>9</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$2,640.00</td><td>\$2,857.70</td></tr> <tr> <td>Wages.....</td><td></td><td>144.00</td><td>612.00</td></tr> <tr> <td colspan="2">Other objects of expenditure:</td><td></td><td></td></tr> <tr> <td>Equipment and material.....</td><td></td><td>6,501.00</td><td>2,379.52</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>2,405.00</td><td>6,285.44</td></tr> <tr> <td>Total.....</td><td></td><td>11,690.00</td><td>12,134.66</td></tr> </tbody> </table>		Employees.	Rate.	Estimated, 1921.	Expended, 1919.	Salaries:		Number.	Number.	Assistant in charge.....per annum..	\$2,640.00	1	1	Mechanic.....per diem..	4.48	..	1	Wages:				Miscellaneous temporary labor—				\$1.88 to \$4.00.....do.....		6	7			7	9	Salaries.....		\$2,640.00	\$2,857.70	Wages.....		144.00	612.00	Other objects of expenditure:				Equipment and material.....		6,501.00	2,379.52	Miscellaneous items.....		2,405.00	6,285.44	Total.....		11,690.00	12,134.66		
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(104) For horticultural investigations, including the study of producing and harvesting truck and related crops, including potatoes, and, in cooperation with the Bureau of Markets, studies of the behavior of vegetables while in the processes of marketing and in commercial storage, and the study of landscape and vegetable gardening, floriculture, and related subjects [ \$73,340 ] ( <i>same acts</i> )		101,940.00																																																									
Appropriation for 1914.....	\$56,320	Estimate for 1914.....	\$36,930																																																								
Appropriation for 1915.....	56,320	Estimate for 1915.....	56,320																																																								
Appropriation for 1916.....	56,080	Estimate for 1916.....	56,080																																																								
Appropriation for 1917.....	56,080	Estimate for 1917.....	56,080																																																								
Appropriation for 1918.....	62,740	Estimate for 1918.....	65,240																																																								
Appropriation for 1919.....	60,540	Estimate for 1919.....	60,540																																																								
Appropriation for 1920.....	73,340	Estimate for 1920.....	88,340																																																								
		Estimate for 1921.....	101,940																																																								
<p>NOTE.—There is an apparent increase in this item of \$28,600, but taking into consideration the transfer to the statutory roll of 1 mechanical assistant at \$1,400, the actual increase is \$30,000, which amount is needed for the following purposes:</p> <p>(a) \$10,000 for studies of vegetable storage. During the past fiscal year eight storage units in the cold-storage laboratory at Arlington Farm were completed and put in operation. During the present fiscal year eight more units will be completed. It is estimated that the operating expenses of this laboratory for electricity, salaries of two engineers (day and night), and repairs and upkeep will be at least \$8,500 per year, with the possibility of exceeding this amount. Some very promising lines of investigation are already well advanced, but a substantial increase over present available funds will be required in order to carry the work to completion and undertake in a comprehensive way the investigation of other important technical problems.</p>																																																											





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																																																																																				
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																																																						
<p>(b) \$10,000 for Irish potato investigations. In the reorganization of the farm management work of the department it is proposed to transfer to this bureau from the Office of Farm Management the project "Farm practice in the production of potatoes," as well as certain features of farm organization projects. In order to develop these activities to meet the needs of the industry from the production standpoint, and to extend the investigational work already under way, particularly the improvement of seed potatoes, additional funds will be necessary. Cooperative arrangements for the handling of this work are already in effect with 15 State experiment stations, and the increase requested for the maintenance of the cooperative work in these various States represents the logical development of the work in 1921.</p> <p>(c) \$5,000 for truck crop improvement. This amount is needed to provide for the increased cost of labor, fuel for heating the greenhouses in which a considerable portion of this work is done, and for an extension of the work and completion of phases already under way, including the standardization of important strains of cauliflower, lettuce, and other vegetables.</p> <p>(d) \$5,000 for bulb culture investigations. These investigations have proceeded far enough to indicate beyond doubt that it is possible to meet the entire demand for bulbs in this country from domestic sources. However, in order to carry the bulb culture investigations through the experimental stage to a definitely recognized commercial industry, additional funds are absolutely necessary. Investigations indicate that the usual practices of handling many of the bulbs are exceedingly wasteful and that methods of propagation can be worked out which will be very much more efficient and rapid than those in common use in the commercial bulb-growing countries. The larger part of the bulb investigations, particularly the work with Dutch bulbs, is carried on at Bellingham, Wash., and Chico, Calif. It is felt that the present is a very important and critical time in the development of this work, and the additional funds recommended will undoubtedly vastly enhance the real value and efficiency of these investigations. Without an increased appropriation the activities must be continued on a scale too limited to be regarded as satisfactory.</p>																																																																																																																																																																																						
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated. 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Horticulturist in charge.....per annum.</td><td>\$3,500.00</td><td>1</td><td><i>Number.</i></td></tr><tr><td>Horticulturist in charge.....do....</td><td>3,000.00</td><td>..</td><td><i>Number.</i></td></tr><tr><td>Horticulturist.....do....</td><td>3,200.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Horticulturist.....do....</td><td>2,400.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Horticulturists.....do....</td><td>2,280.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Horticulturists.....do....</td><td>2,220.00</td><td>2 (1 new)</td><td>2 (1 pt. time)</td></tr><tr><td>Horticulturist.....do....</td><td>2,100.00</td><td>1</td><td>1</td></tr><tr><td>Horticulturist.....do....</td><td>2,000.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Horticulturists.....do....</td><td>1,800.00</td><td>1</td><td>..</td></tr><tr><td>Pomologist.....do....</td><td>3,200.00</td><td>2</td><td>1 (pt. time)</td></tr><tr><td>Pomologist.....do....</td><td>2,760.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Agriculturist.....do....</td><td>3,000.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Agriculturist.....do....</td><td>2,760.00</td><td>1</td><td>..</td></tr><tr><td>Agronomist.....do....</td><td>2,040.00</td><td>1</td><td>1</td></tr><tr><td>Botanist.....do....</td><td>2,760.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Physiologist.....do....</td><td>3,000.00</td><td>1</td><td>..</td></tr><tr><td>Physiologist.....do....</td><td>2,760.00</td><td>1</td><td>..</td></tr><tr><td>Physiologist.....do....</td><td>2,460.00</td><td>1</td><td>..</td></tr><tr><td>Physiologist.....do....</td><td>2,280.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr><tr><td>Physiologist.....do....</td><td>2,160.00</td><td>1 (pt. time)</td><td>..</td></tr><tr><td>Physiologists.....do....</td><td>2,040.00</td><td>..</td><td>2 (1 pt. time)</td></tr><tr><td>Physiologist.....do....</td><td>2,000.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Physiologist.....do....</td><td>1,800.00</td><td>1 (pt. time)</td><td>..</td></tr><tr><td>Superintendent.....do....</td><td>1,800.00</td><td>..</td><td>1</td></tr><tr><td>Junior chemist.....do....</td><td>1,800.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,860.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,800.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Assistant.....do....</td><td>1,620.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,600.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,500.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,440.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Assistant.....do....</td><td>1,400.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,380.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,320.00</td><td>1</td><td>..</td></tr><tr><td>Assistants.....do....</td><td>1,200.00</td><td>3</td><td>3 (pt. time)</td></tr><tr><td>Assistant.....do....</td><td>1,100.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistants.....do....</td><td>1,080.00</td><td>2</td><td>..</td></tr><tr><td>Assistants.....do....</td><td>1,020.00</td><td>2</td><td>..</td></tr><tr><td>Clerks.....do....</td><td>1,000.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td>Draftsman.....do....</td><td>1,200.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td colspan="4"><i>Agent, aid and collaborators—</i></td></tr><tr><td>    \$900 to \$1.....do....</td><td></td><td>4</td><td>2 (temp.)</td></tr><tr><td>    \$70 to \$2.50.....per month.....</td><td></td><td>..</td><td>3 (2 temp.)</td></tr></table>	Employees.	Rate.	Estimated. 1921.	Expended, 1919.	<i>Salaries:</i>				Horticulturist in charge.....per annum.	\$3,500.00	1	<i>Number.</i>	Horticulturist in charge.....do....	3,000.00	..	<i>Number.</i>	Horticulturist.....do....	3,200.00	1	1 (pt. time)	Horticulturist.....do....	2,400.00	1	1 (pt. time)	Horticulturists.....do....	2,280.00	1	1 (pt. time)	Horticulturists.....do....	2,220.00	2 (1 new)	2 (1 pt. time)	Horticulturist.....do....	2,100.00	1	1	Horticulturist.....do....	2,000.00	1	1 (pt. time)	Horticulturists.....do....	1,800.00	1	..	Pomologist.....do....	3,200.00	2	1 (pt. time)	Pomologist.....do....	2,760.00	..	1 (pt. time)	Agriculturist.....do....	3,000.00	1	1 (pt. time)	Agriculturist.....do....	2,760.00	1	..	Agronomist.....do....	2,040.00	1	1	Botanist.....do....	2,760.00	..	1 (pt. time)	Physiologist.....do....	3,000.00	1	..	Physiologist.....do....	2,760.00	1	..	Physiologist.....do....	2,460.00	1	..	Physiologist.....do....	2,280.00	1 (pt. time)	1 (pt. time)	Physiologist.....do....	2,160.00	1 (pt. time)	..	Physiologists.....do....	2,040.00	..	2 (1 pt. time)	Physiologist.....do....	2,000.00	..	1 (pt. time)	Physiologist.....do....	1,800.00	1 (pt. time)	..	Superintendent.....do....	1,800.00	..	1	Junior chemist.....do....	1,800.00	..	1 (pt. time)	Assistant.....do....	1,860.00	1	1 (pt. time)	Assistant.....do....	1,800.00	1	1 (temp.)	Assistant.....do....	1,620.00	1	1 (pt. time)	Assistant.....do....	1,600.00	1	1 (pt. time)	Assistant.....do....	1,500.00	..	1 (pt. time)	Assistant.....do....	1,440.00	1	1 (temp.)	Assistant.....do....	1,400.00	..	1 (pt. time)	Assistant.....do....	1,380.00	..	1 (pt. time)	Assistant.....do....	1,320.00	1	..	Assistants.....do....	1,200.00	3	3 (pt. time)	Assistant.....do....	1,100.00	1	1 (pt. time)	Assistants.....do....	1,080.00	2	..	Assistants.....do....	1,020.00	2	..	Clerks.....do....	1,000.00	..	2 (temp.)	Draftsman.....do....	1,200.00	..	1 (temp.)	<i>Agent, aid and collaborators—</i>				\$900 to \$1.....do....		4	2 (temp.)	\$70 to \$2.50.....per month.....		..	3 (2 temp.)		
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Pomologist.....do....	2,760.00	..	1 (pt. time)																																																																																																																																																																																			
Agriculturist.....do....	3,000.00	1	1 (pt. time)																																																																																																																																																																																			
Agriculturist.....do....	2,760.00	1	..																																																																																																																																																																																			
Agronomist.....do....	2,040.00	1	1																																																																																																																																																																																			
Botanist.....do....	2,760.00	..	1 (pt. time)																																																																																																																																																																																			
Physiologist.....do....	3,000.00	1	..																																																																																																																																																																																			
Physiologist.....do....	2,760.00	1	..																																																																																																																																																																																			
Physiologist.....do....	2,460.00	1	..																																																																																																																																																																																			
Physiologist.....do....	2,280.00	1 (pt. time)	1 (pt. time)																																																																																																																																																																																			
Physiologist.....do....	2,160.00	1 (pt. time)	..																																																																																																																																																																																			
Physiologists.....do....	2,040.00	..	2 (1 pt. time)																																																																																																																																																																																			
Physiologist.....do....	2,000.00	..	1 (pt. time)																																																																																																																																																																																			
Physiologist.....do....	1,800.00	1 (pt. time)	..																																																																																																																																																																																			
Superintendent.....do....	1,800.00	..	1																																																																																																																																																																																			
Junior chemist.....do....	1,800.00	..	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,860.00	1	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,800.00	1	1 (temp.)																																																																																																																																																																																			
Assistant.....do....	1,620.00	1	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,600.00	1	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,500.00	..	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,440.00	1	1 (temp.)																																																																																																																																																																																			
Assistant.....do....	1,400.00	..	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,380.00	..	1 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,320.00	1	..																																																																																																																																																																																			
Assistants.....do....	1,200.00	3	3 (pt. time)																																																																																																																																																																																			
Assistant.....do....	1,100.00	1	1 (pt. time)																																																																																																																																																																																			
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Draftsman.....do....	1,200.00	..	1 (temp.)																																																																																																																																																																																			
<i>Agent, aid and collaborators—</i>																																																																																																																																																																																						
\$900 to \$1.....do....		4	2 (temp.)																																																																																																																																																																																			
\$70 to \$2.50.....per month.....		..	3 (2 temp.)																																																																																																																																																																																			





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
General Expenses, Bureau of Plant Industry—Continued.					
Employees.		Rate.	Estimated, 1921.	Expended, 1919.	
Wages:					
Miscellaneous temporary labor—			Number.	Number.	
\$90 to \$70.....do.....			5	5	
\$5 to \$2.75.....per diem.....			7	8	
\$0.50 to \$0.25.....per hour.....			2	2	
			49	54	
Salaries.....			\$46,500.00	\$30,752.64	
Wages.....			3,700.00	2,842.60	
Other objects of expenditure:					
Stationery.....			500.00	434.49	
Traveling expenses.....			10,000.00	4,264.55	
Equipment and material.....			10,948.00	2,153.60	
Miscellaneous items.....			30,292.00	18,936.77	
Total.....			101,940.00	59,384.65	
(105)	For investigating methods of propagating fruit trees, ornamental and other plants, the study of stocks used in propagating such plants, methods of growing stocks, the establishment and maintenance of mother orchards or plantations for the purpose of providing American sources of stocks, cuttings, or other propagating materials (submitted).....				\$30,000.00
<p>NOTE.—This is a new item. The necessity of restricting under the plant quarantine act the importation of much of the nursery stock and other closely allied plant material hitherto brought into the United States in large quantities, in order to give adequate protection to horticultural and pomological interests against the introduction of dangerous insect pests and fungous diseases, together with the serious reduction during the past year or two in the usual supplies of stocks obtained under normal conditions from France and elsewhere, has served to emphasize the importance of developing domestic supplies of these materials.</p> <p>The foundation of apple, pear, peach, plum, cherry, citrus, and other fruit orchards and groves is the stocks on which the trees are budded or grafted. These stocks are grown from seeds obtained from various sources. In the case of apple, pear, cherry, and in part the plums, the sources are almost entirely in foreign countries—France, the Orient, and other parts of the world. While stocks of all these different kinds are grown in this country to some extent, they are produced very largely from imported seeds. There are no suitable and adequate sources of these seeds in this country. Furthermore, large quantities of such stocks are normally imported for use in addition to those grown in this country from imported seeds. More than 20,000,000 apple stocks alone, besides many other kinds, were imported in 1916; that is, before the trade was seriously interrupted by war conditions.</p> <p>In the case of citrus stocks, peaches, some plums, and other kinds, there are domestic sources of seeds and the needed supplies of stocks are grown in this country, but that there may not be better stocks than those now being used is an open question. The sources of these seeds should be safeguarded in order to insure the maintenance of their supply. This factor, however, is of relatively small importance compared with the fact that experience and opinions differ widely among nurserymen and fruit growers as to the relative merits of different species and varieties used for stock purposes in propagating trees to be grown in different sections. Apparently these views are frequently based on inadequate evidence and are not the result of facts secured in a thoroughly reliable manner with a view to determine the principles involved.</p>					
Employees.		Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>	
Salaries:			Number.	Number.	
Pomologist.....per annum.....		\$2,760.00	1	.....	
Scientific assistant.....do.....		1,800.00	1	.....	
Scientific assistant.....do.....		1,620.00	1	.....	
Histologist.....do.....		1,800.00	1	.....	
Propagators.....do.....		1,500.00	2	.....	
Superintendent.....do.....		1,800.00	1	.....	
			7	.....	
Salaries.....			\$12,780.00	.....	
Other objects of expenditure:					
Traveling expenses.....			5,400.00	.....	
Equipment and material.....			3,000.00	.....	
Miscellaneous items.....			8,820.00	.....	
Total.....			30,000.00	.....	
<sup>1</sup> No appropriation for fiscal year.					

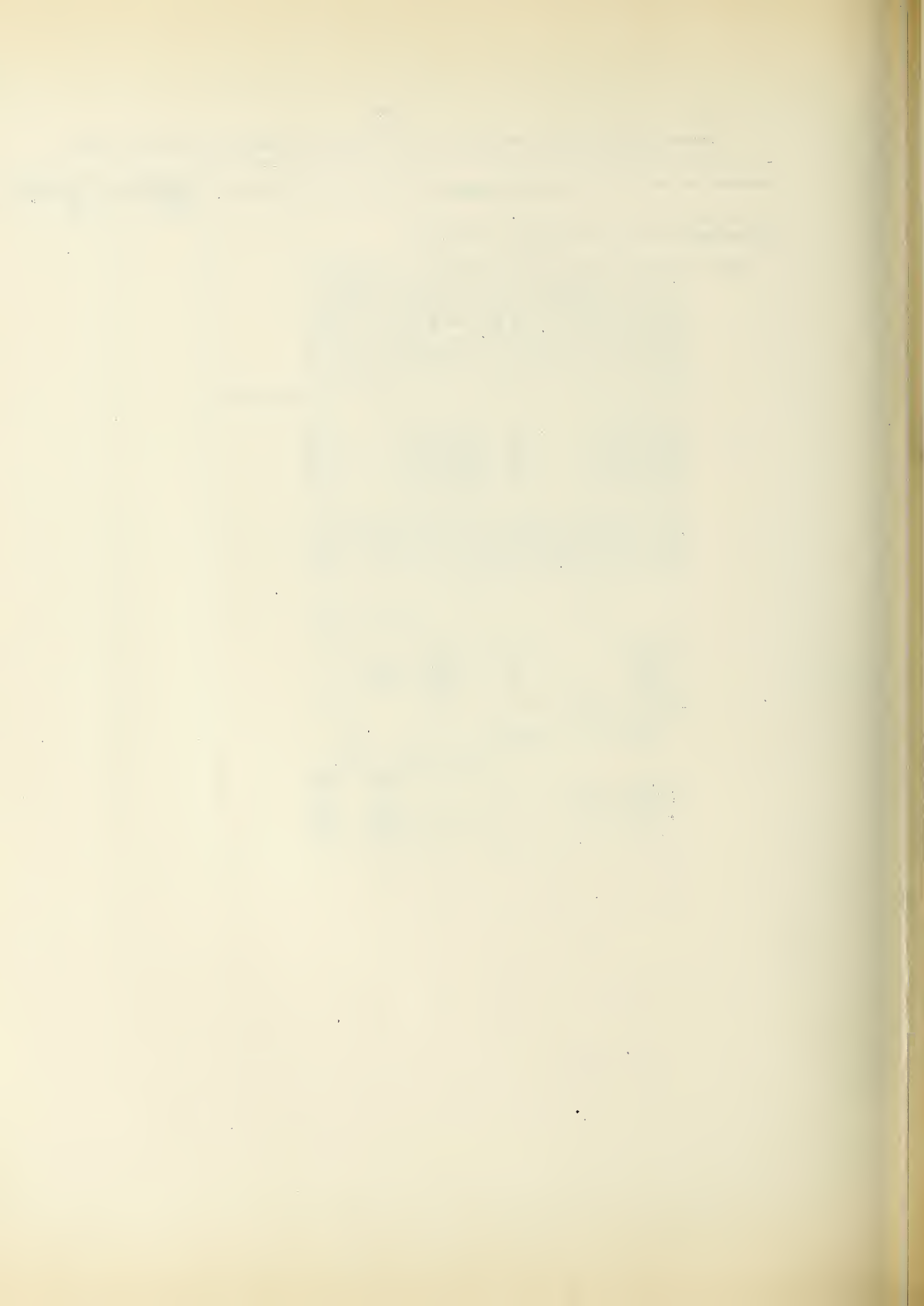
<sup>1</sup> No appropriation for fiscal year.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																								
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																										
(106) For continuing the necessary improvements to establish and maintain a general experiment farm and agricultural station on the Arlington estate, in the State of Virginia, in accordance with the provisions of the act of Congress approved April 18, 1900, <b>[\$21,900]</b> \$25,500: <i>Provided</i> , That the limitations in this act as to the cost of farm buildings shall not apply to this paragraph ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1</i> ).....	\$25,500.00																																																																																									
Appropriation for 1911..... \$34,930	Estimate for 1912..... \$38,990																																																																																									
Appropriation for 1912..... 38,000	Estimate for 1913..... 36,920																																																																																									
Appropriation for 1913..... 55,960	Estimate for 1914..... 55,960																																																																																									
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Appropriation for 1920..... 21,900	Estimate for 1921..... 25,500																																																																																									
<p>NOTE.—There is an apparent increase in this item of \$3,600, but taking into consideration the transfer to the statutory roll of 1 mechanic at \$1,400, the actual increase is \$5,000, which amount is needed to meet the advance in the cost of labor, supplies, fuel, repairs to farm machinery, etc., incident to the work at the Arlington experiment farm. It is also desired to enlarge and repair the heating plant.</p>																																																																																										
<table><thead><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr></thead><tbody><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Horticulturist.....per annum..</td><td>\$2,640.00</td><td><i>Number.</i> 1</td><td><i>Number.</i> 1</td></tr><tr><td>Mechanic.....do.....</td><td>1,400.00</td><td>..</td><td>1</td></tr><tr><td>Foremen.....do.....</td><td>1,200.00</td><td>3 (pt. time)</td><td>3</td></tr><tr><td>Foreman.....do.....</td><td>1,100.00</td><td>1 (pt. time)</td><td>..</td></tr><tr><td>Painter.....do.....</td><td>1,000.00</td><td>1 (pt. time)</td><td>1</td></tr><tr><td>Clerks.....do.....</td><td>1,000.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td>Farmers and carpenters.....do....</td><td>900.00</td><td>2</td><td>2</td></tr><tr><td colspan="4"><i>Wages:</i></td></tr><tr><td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr><tr><td>\$780.....do.....</td><td></td><td>1</td><td>1</td></tr><tr><td>\$4.50 to \$1.25.....per diem..</td><td></td><td>12</td><td>132</td></tr><tr><td>\$0.50.....per hour.....</td><td></td><td>..</td><td>1</td></tr><tr><td></td><td></td><td>21</td><td>145</td></tr><tr><td>Salaries.....</td><td></td><td>\$5,115.00</td><td>\$9,622.24</td></tr><tr><td>Wages.....</td><td></td><td>3,377.00</td><td>1,389.86</td></tr><tr><td colspan="4"><i>Other objects of expenditure:</i></td></tr><tr><td>Stationery.....</td><td></td><td>150.00</td><td>228.91</td></tr><tr><td>Equipment and material.....</td><td></td><td>4,558.00</td><td>4,646.80</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>12,300.00</td><td>5,305.09</td></tr><tr><td>Total.....</td><td></td><td>25,500.00</td><td>21,192.90</td></tr></tbody></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	<i>Salaries:</i>				Horticulturist.....per annum..	\$2,640.00	<i>Number.</i> 1	<i>Number.</i> 1	Mechanic.....do.....	1,400.00	..	1	Foremen.....do.....	1,200.00	3 (pt. time)	3	Foreman.....do.....	1,100.00	1 (pt. time)	..	Painter.....do.....	1,000.00	1 (pt. time)	1	Clerks.....do.....	1,000.00	..	2 (temp.)	Farmers and carpenters.....do....	900.00	2	2	<i>Wages:</i>				Miscellaneous temporary labor—				\$780.....do.....		1	1	\$4.50 to \$1.25.....per diem..		12	132	\$0.50.....per hour.....		..	1			21	145	Salaries.....		\$5,115.00	\$9,622.24	Wages.....		3,377.00	1,389.86	<i>Other objects of expenditure:</i>				Stationery.....		150.00	228.91	Equipment and material.....		4,558.00	4,646.80	Miscellaneous items.....		12,300.00	5,305.09	Total.....		25,500.00	21,192.90		
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

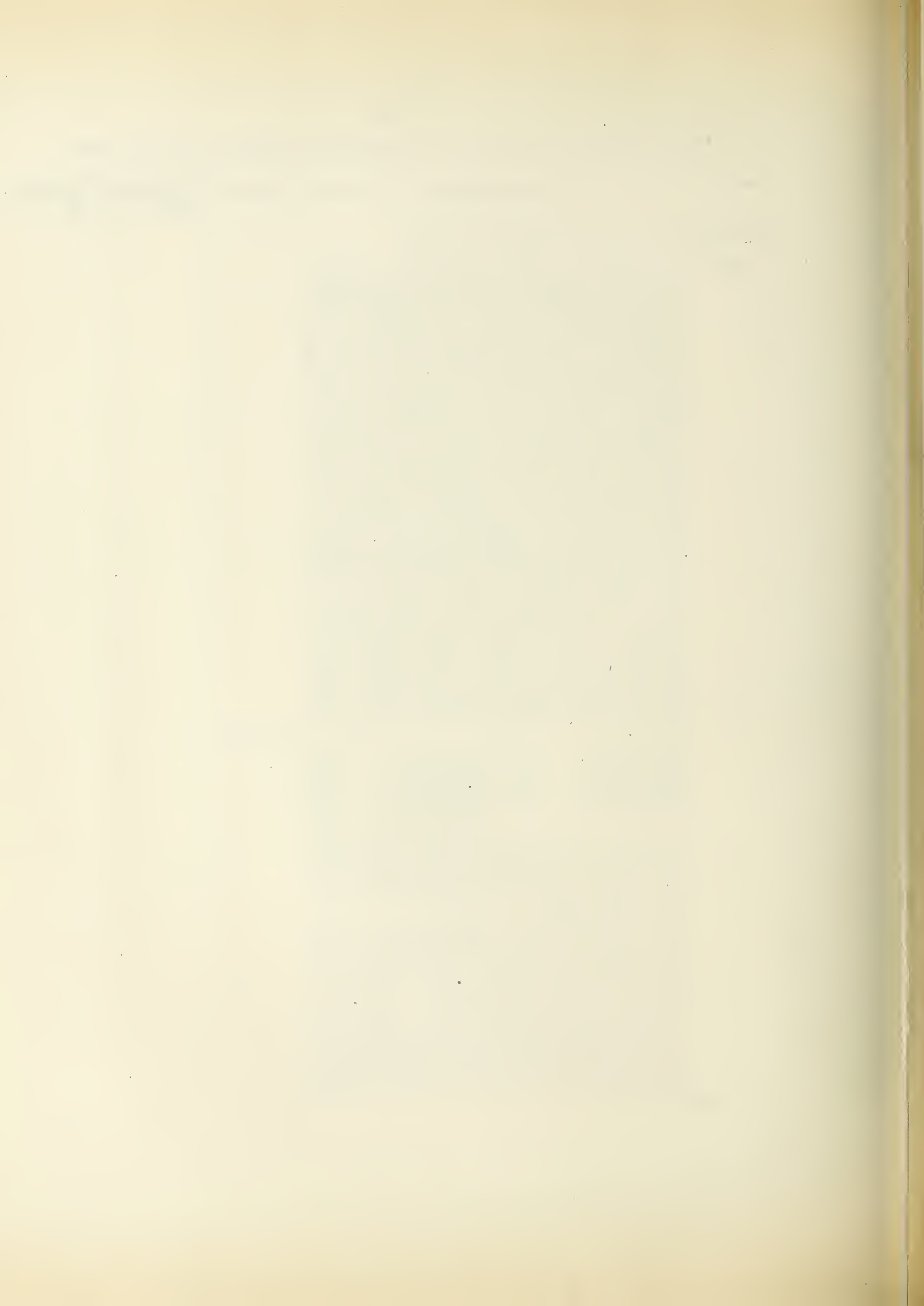
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>		
<p>(107) For investigations in foreign seed and plant introduction, including the study, collection, purchase, testing, propagation, and distribution of rare and valuable seeds, bulbs, trees, shrubs, vines, cuttings, and plants from foreign countries and from our possessions, and for experiments with reference to their introduction and cultivation in this country, <b>["\$132,700"] \$114,200</b> [of which sum the Secretary of Agriculture is authorized to expend \$50,000, or so much thereof as may be necessary, for the purchase of not to exceed fifty acres of suitable land near the city of Washington, District of Columbia, and the erection thereon of all necessary buildings and equipment, and for the establishment of a plant-inspection and detention station: <i>Provided, That not to exceed \$10,000 of this sum shall be expended for the purchase of the land</i>]: <i>Provided, That the Secretary of Agriculture is hereafter authorized to acquire by gift, devise, or by purchase for a sum not to exceed one dollar for each site, the sites now occupied by field stations at Chico, California, consisting of about 80 acres and used for propagating, testing, and distributing new plant introductions; the site at Bellingham, Washington, consisting of about 60 acres and used as a bulb station and for propagating, testing, and distributing new crop plants; and the sites at Buena Vista, Florida, and Savannah, Georgia, consisting of about 25 acres and about 46 acres, respectively, and used for propagating, testing, and distributing new crop plants peculiarly adapted to the warmer parts of the United States: Provided further, That the limitations in this act as to cost of farm buildings shall not apply to this paragraph (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242, 245, sec. 1)</i> -----</p>	\$114, 200. 00	
<p>Appropriation for 1914..... \$83,000  Appropriation for 1915..... 74,600  Appropriation for 1916..... 70,400  Appropriation for 1917..... 70,400  Appropriation for 1918..... 93,040  Appropriation for 1919..... 91,440  Appropriation for 1920..... 132,700</p>	<p>Estimate for 1914..... \$93,290  Estimate for 1915..... 81,000  Estimate for 1916..... 75,400  Estimate for 1917..... 70,400  Estimate for 1918..... 93,040  Estimate for 1919..... 91,440  Estimate for 1920..... 82,700  Estimate for 1921..... 114,200</p>	

NOTE.—There is a decrease in the above item of \$18,500. Inasmuch as the appropriation for the current fiscal year, however, includes \$50,000 for the purchase of land, erection of buildings, etc., in connection with the establishment of a plant-inspection and detention station, which amount is omitted in the estimates for 1921, there will be available next year \$31,500 additional for other projects under this item. It is proposed to use this amount as follows:

(a) \$11,500 for developing and maintaining the Chico, Calif., field station. During the fiscal year 1918 the area of this station was increased by the addition of 130 acres of land. Without a material increase of funds it will be impossible to improve and develop this new tract, including leveling, construction of roadways and irrigation ditches, and preparation of the ground for propagating plants. Additional assistants also are needed to care for the increased acreage and to supervise the new plantings thereon, and provision should be made for increased labor charges and for the advance in the cost of all materials.

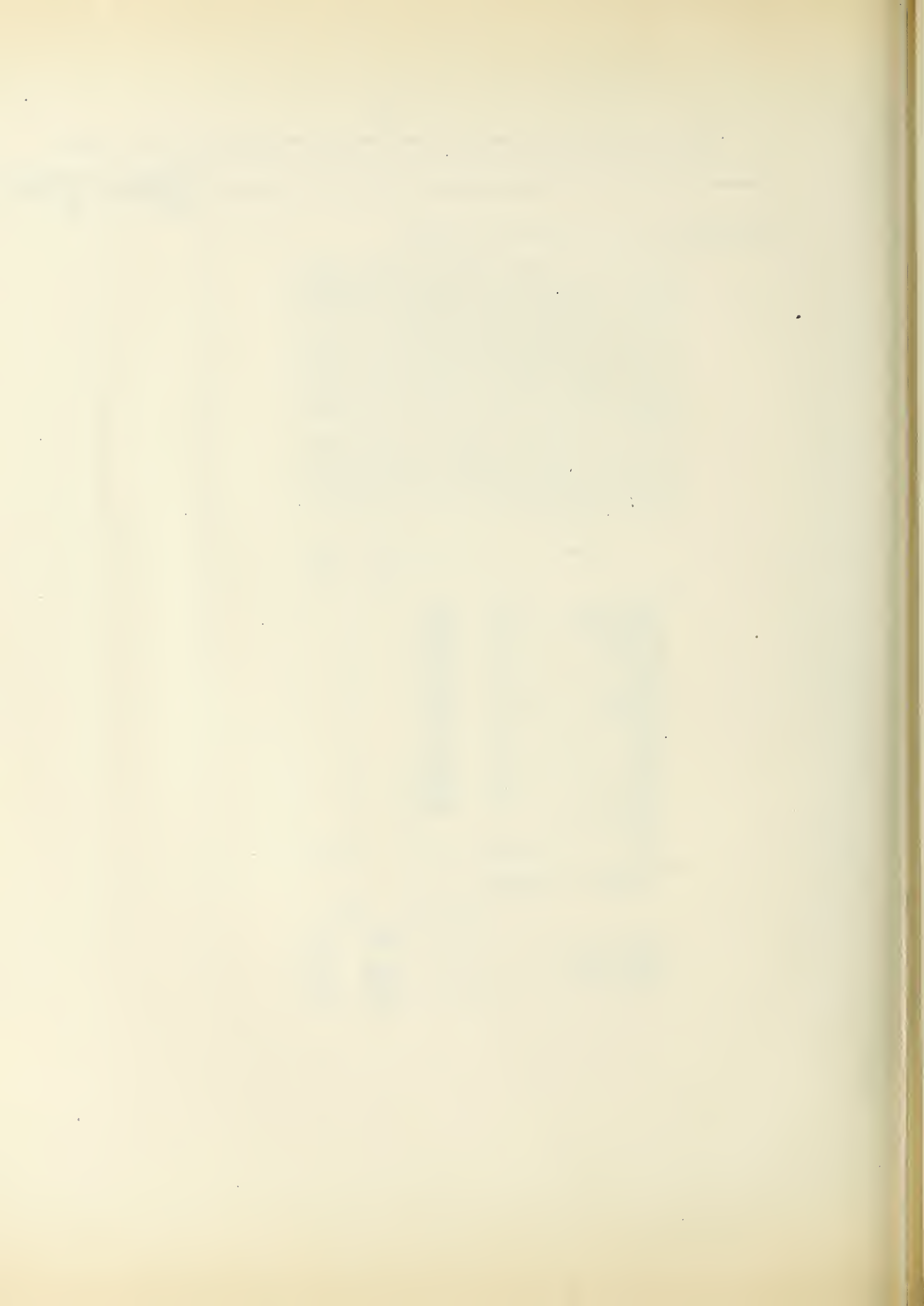
(b) \$10,000 for the plant introduction field station at Miami, Fla., and the subsidiary station at Buena Vista, Fla. These are the only stations of the department where experiments with semitropical fruits, such as the avocado, mango, etc., can be conducted. The present garden of 5 acres at Miami has been operated under lease, which will expire at a comparatively early date, and, as it is already filled with valuable plant introductions, it can not be developed to accommodate the additional





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																																																																																												
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																																																														
<p>work demanded. It is therefore desirable to transfer the plants as rapidly as possible to the 25-acre tract at Buena Vista, Fla., 3 or 4 miles distant from the Miami garden, now being developed by the Department. The increased funds are required for the purchase of implements, construction of a potting shed, lath house, frames, etc., in connection with the Buena Vista tract, and to provide for additional labor and for maintenance of the work at Miami and Buena Vista.</p> <p>(c) \$10,000 for work in connection with new plant-detention station. The ground for this station has been purchased, and the necessary buildings will be erected during the current fiscal year; but it will not be practicable during the present year to undertake much in the way of developing the station. The increase recommended will provide for the necessary labor, fuel, electric power, construction and care of walks and roads, purchase of farm implements and horses, and general maintenance.</p> <p>A proviso has also been added to authorize the Secretary of Agriculture to acquire by gift, devise, or by purchase the sites now occupied by field stations at Chico, Calif.; Bellingham, Wash.; Buena Vista, Fla.; and Savannah, Ga., as it appears desirable, in the interest of good administration, for the department to own the land on which it is maintaining its plant introduction field stations. In all the cases mentioned the the department has been assured that it would be possible to secure control in the manner indicated.</p>																																																																																																																																																																																														
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td></td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td colspan="4">Salaries:</td></tr><tr><td>Agricultural explorer.....per annum..</td><td>\$4,500.00</td><td>1</td><td>--</td></tr><tr><td>Agricultural explorer.....do.....</td><td>4,000.00</td><td>--</td><td>1</td></tr><tr><td>Agricultural explorer.....do.....</td><td>2,520.00</td><td>1</td><td>1</td></tr><tr><td>Agricultural explorer.....do.....</td><td>2,400.00</td><td>1</td><td>1</td></tr><tr><td>Pathologist.....do.....</td><td>4,000.00</td><td>1</td><td>1</td></tr><tr><td>Plant introducer.....do.....</td><td>3,500.00</td><td>1</td><td>1</td></tr><tr><td>Plant introducer.....do.....</td><td>2,760.00</td><td>1</td><td>1</td></tr><tr><td>Plant introducer.....do.....</td><td>2,280.00</td><td>1</td><td>1</td></tr><tr><td>Botanist.....do.....</td><td>2,400.00</td><td>1</td><td>1</td></tr><tr><td>Botanist.....do.....</td><td>1,860.00</td><td>1</td><td>1</td></tr><tr><td>Superintendent.....do.....</td><td>2,280.00</td><td>1</td><td>1</td></tr><tr><td>Superintendents.....do.....</td><td>2,040.00</td><td>2</td><td>2</td></tr><tr><td>Superintendent.....do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr><tr><td>Plant propagator.....do.....</td><td>1,860.00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1,800.00</td><td>2</td><td>2</td></tr><tr><td>Assistant.....do.....</td><td>1,680.00</td><td>1</td><td>--</td></tr><tr><td>Assistants.....do.....</td><td>1,620.00</td><td>2</td><td>2</td></tr><tr><td>Assistant.....do.....</td><td>1,500.00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1,440.00</td><td>--</td><td>2</td></tr><tr><td>Assistant.....do.....</td><td>1,400.00</td><td>1</td><td>1</td></tr><tr><td>Assistants.....do.....</td><td>1,200.00</td><td>2</td><td>5</td></tr><tr><td>Assistant.....do.....</td><td>1,080.00</td><td>--</td><td>1</td></tr><tr><td>Assistant.....do.....</td><td>1,000.00</td><td>1</td><td>1</td></tr><tr><td>Field station aid.....do.....</td><td>1,100.00</td><td>1</td><td>1</td></tr><tr><td>Field station aids.....do.....</td><td>1,020.00</td><td>2</td><td>2</td></tr><tr><td>Field station aid.....do.....</td><td>1,000.00</td><td>--</td><td>1</td></tr><tr><td>Messenger boy, aids, and col- laborators—</td><td></td><td></td><td></td></tr><tr><td>\$900 to \$1.....do.....</td><td></td><td>16</td><td>22</td></tr><tr><td>\$10.....per month.....</td><td></td><td>--</td><td>1</td></tr><tr><td>\$0.25.....per hour.....</td><td></td><td>--</td><td>2 (1 temp.)</td></tr><tr><td colspan="4">Wages:</td></tr><tr><td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr><tr><td>\$900 to \$660.....per annum.....</td><td></td><td>11</td><td>9</td></tr><tr><td>\$55 to \$35.....per month.....</td><td></td><td>--</td><td>9</td></tr><tr><td>\$5 to \$1.25.....per diem.....</td><td></td><td>--</td><td>46</td></tr><tr><td></td><td></td><td>54</td><td>123</td></tr><tr><td>Salaries.....</td><td></td><td>\$66,930.00</td><td>\$54,643.18</td></tr><tr><td>Wages.....</td><td></td><td>7,760.00</td><td>10,731.08</td></tr><tr><td colspan="4">Other objects of expenditure:</td></tr><tr><td>Stationery.....</td><td></td><td></td><td>2,342.04</td></tr><tr><td>Traveling expenses.....</td><td></td><td>8,550.00</td><td>5,744.84</td></tr><tr><td>Equipment and material.....</td><td></td><td>18,593.00</td><td>7,541.08</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>12,367.00</td><td>11,267.67</td></tr><tr><td>Total.....</td><td></td><td>114,200.00</td><td>92,269.89</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.			<i>Number.</i>	<i>Number.</i>	Salaries:				Agricultural explorer.....per annum..	\$4,500.00	1	--	Agricultural explorer.....do.....	4,000.00	--	1	Agricultural explorer.....do.....	2,520.00	1	1	Agricultural explorer.....do.....	2,400.00	1	1	Pathologist.....do.....	4,000.00	1	1	Plant introducer.....do.....	3,500.00	1	1	Plant introducer.....do.....	2,760.00	1	1	Plant introducer.....do.....	2,280.00	1	1	Botanist.....do.....	2,400.00	1	1	Botanist.....do.....	1,860.00	1	1	Superintendent.....do.....	2,280.00	1	1	Superintendents.....do.....	2,040.00	2	2	Superintendent.....do.....	1,800.00	1	1	Plant propagator.....do.....	1,860.00	1	1	Assistants.....do.....	1,800.00	2	2	Assistant.....do.....	1,680.00	1	--	Assistants.....do.....	1,620.00	2	2	Assistant.....do.....	1,500.00	1	1	Assistants.....do.....	1,440.00	--	2	Assistant.....do.....	1,400.00	1	1	Assistants.....do.....	1,200.00	2	5	Assistant.....do.....	1,080.00	--	1	Assistant.....do.....	1,000.00	1	1	Field station aid.....do.....	1,100.00	1	1	Field station aids.....do.....	1,020.00	2	2	Field station aid.....do.....	1,000.00	--	1	Messenger boy, aids, and col- laborators—				\$900 to \$1.....do.....		16	22	\$10.....per month.....		--	1	\$0.25.....per hour.....		--	2 (1 temp.)	Wages:				Miscellaneous temporary labor—				\$900 to \$660.....per annum.....		11	9	\$55 to \$35.....per month.....		--	9	\$5 to \$1.25.....per diem.....		--	46			54	123	Salaries.....		\$66,930.00	\$54,643.18	Wages.....		7,760.00	10,731.08	Other objects of expenditure:				Stationery.....			2,342.04	Traveling expenses.....		8,550.00	5,744.84	Equipment and material.....		18,593.00	7,541.08	Miscellaneous items.....		12,367.00	11,267.67	Total.....		114,200.00	92,269.89		
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (108) **For the purchase, propagation, testing, and distribution of new and rare seeds; for the investigation and improvement of grasses, alfalfa, clover, and other forage crops, including the investigation of the utilization of cacti and other dry-land plants; and to conduct investigations to determine the most effective methods of eradicating weeds, \$139,780: *Provided*, That of this amount not to exceed \$57,800 may be used for the purchase and distribution of such new and rare seeds.**

Appropriation for 1914.....	\$100,000	Estimate for 1914.....	\$100,000
Appropriation for 1915.....	166,500	Estimate for 1915.....	175,000
Appropriation for 1916.....	119,920	Estimate for 1916.....	119,920
Appropriation for 1917.....	140,920	Estimate for 1917.....	140,920
Appropriation for 1918.....	143,180	Estimate for 1918.....	139,180
Appropriation for 1919.....	143,180	Estimate for 1919.....	143,180
Appropriation for 1920.....	139,780	Estimate for 1920.....	139,780
		Estimate for 1921.....	205,080

NOTE.—The above item, which has been carried in this form for a number of years, provides for the purchase and distribution of new and rare seeds, as well as for the forage crop investigations of the bureau. There seems to be no good reason why these two distinct activities should be combined in a single paragraph. On the other hand, it would be in the interest of good administration and simplify the accounting to have the two lines of work covered by separate items. (See items 109 and 110.)

- (109) *For the purchase, propagation, testing, and distribution of new and rare seeds (submitted) .....* \$56,600.00

NOTE.—While this appears as a new item, it merely represents a segregation of a part of item 108, as explained in the preceding note, without change in phraseology. There is a decrease in the item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Clerk.....per annum.....	\$1,800.00	..	1 (pt. time)
Clerk.....do.....	1,500.00	..	1
Clerk.....do.....	1,200.00	10 (temp.)	7 (5 temp.)
Clerk.....do.....	1,000.00	..	2 (temp.)
Wages:			
Miscellaneous temporary labor {per diem.....	2.00	12 (temp.)	10
{per hour.....	.25	..	2
		22	23
Salaries.....		\$6,000.00	\$5,265.88
Wages.....		3,744.00	1,588.42
Other objects of expenditure:			
Stationery.....		3,000.00	12.40
Traveling expenses.....		1,000.00	839.19
Equipment and material.....		3,000.00	664.38
Miscellaneous items (including seeds).....		39,856.00	44,585.57
Total.....		56,600.00	52,958.84





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>		
(110) <i>For the investigation and improvement of grasses, alfalfa, clover, and other forage crops, including the investigation of the utilization of cacti and other dry-land plants; and to conduct investigations to determine the most effective methods of eradicating weeds (submitted)</i> -----	\$148,480.00	

NOTE.—While this appears as a new item, it merely represents a segregation of part of item 108, without change in phraseology. There is an apparent increase in the item of \$66,500, but taking into consideration the transfer to the statutory roll of 1 clerk at \$1,500 the actual increase is \$68,000. It is proposed to use this additional amount as follows:

(a) \$13,000 to meet the increased cost of labor and materials necessary to maintain on its present basis the experimental work with forage crops being conducted at the various field stations of the Bureau of Plant Industry.

(b) \$30,000 for pasture investigations in the southern coastal plains. This region consists of swamp lands and relatively poor uplands. Up to 1918 it was estimated that 76,000,000 acres had been cut over. The utilization of these cut-over lands is limited chiefly to live stock raising and forestry; moreover, their use for live stock is dependent almost entirely upon the successful solution of the problem of maintaining permanent pasturage. The development of permanent pastures involves large-scale utilization experiments with grasses and legumes known to be suitable to the southern coastal plains region and investigations to locate additional forage plants.

(c) \$15,000 for red-clover investigations. The red-clover acreage is steadily decreasing, the reduction being nearly 50 per cent between 1899 and 1909, and even greater than that more recently. Since red clover appears to be the best crop in the rotation system for restoring soil fertility in the corn-belt region, and generally throughout the Northern States, the decrease in acreage is presumably responsible for reduced yields of other crops as well. The cause for this decrease in acreage is not understood. Cultural investigations should be undertaken in several sections of the United States to learn more about the production requirements of the clover crop, and experiments should be conducted in suitable regions with reference to the feasibility of improving methods of seed production.

(d) \$10,000 for investigations looking to increasing the carrying capacity of semiarid range lands. Any increase in the carrying capacity of the natural range or pasture lands beyond that which follows fencing and good management can be expected only from the introduction of new forage plants. In California 80 per cent of the forage on lowland ranges is made up of plants from the Mediterranean region. In the Great Plains and intermountain regions such plants have not yet been found except the inferior weeds, such as Russian thistle and rosy saltbush. Both of these plants from southern Asia have spread over wide areas, and there is every reason to suppose that from the same region grasses and legumes will be found which, if once established in the plains, will spread of their own accord. The development of range homesteads in the West accentuates the need for these investigations.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Agrostologist in charge.....per annum..	\$4,000.00	1	..
Agrostologist in charge.....do.....	3,750.00	..	1
Agrostologists.....do.....	2,280.00	2	2
Agrostologist.....do.....	1,620.00	..	1
Agronomists.....do.....	3,000.00	3 (1 new)	..
Agronomists.....do.....	2,760.00	..	2
Agronomist.....do.....	2,640.00	1	1
Agronomists.....do.....	2,400.00	2 (new)	..
Agronomist.....do.....	2,280.00	1	1
Agronomist.....do.....	2,250.00	1 (new)	..
Agronomists.....do.....	2,040.00	..	2 (1 temp.)
Agronomist.....do.....	2,000.00	1	1
Agronomist.....do.....	1,920.00	1	..
Plant breeder and propagator.....do.....	2,220.00	1	1
Assistants.....do.....	2,040.00	2	1
Assistant.....do.....	1,920.00	1	1
Assistant.....do.....	1,890.00	1	1
Assistants.....do.....	1,740.00	2	..
Assistants.....do.....	1,680.00	2	2
Assistants.....do.....	1,620.00	10 (9 new)	3
Assistants.....do.....	1,500.00	3	4
Assistant.....do.....	1,440.00	1	..
Assistant.....do.....	1,320.00	1	..





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries—Continued.</b>		<i>Number.</i>	<i>Number.</i>
Assistants.....per annum..	1,200.00	6 (4 new)	3 (temp.)
Assistant.....do.....	1,080.00	1	1
Artist draftsman.....do.....	1,400.00	1	1
Clerk.....do.....	1,500.00	1	1
Clerks.....do.....	1,200.00	1	2 (temp.)
Field station aid.....do.....	1,200.00	1	1
Field station aid.....do.....	1,080.00	1	1
Agent.....do.....	1,400.00	1	..
Agents.....do.....	1,200.00	2	..
Agent.....do.....	1,150.00	1	1
Agents.....per month.....	100.00	..	3 (temp.)
Teamster.....do.....	100.00	..	1 (temp.)
Agents and collaborators—			
\$700 to \$1.....per annum.....		9	7
\$50 to \$1.....per month.....		..	4
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$100 to \$25.....do.....		2	12
\$1 to \$1.25.....per diem.....		10	27
\$0.40.....per hour.....		..	3
		71	92
Salaries.....		\$88,240.00	\$51,352.30
Wages.....		1,806.00	4,270.82
<b>Other objects of expenditure:</b>			
Stationery.....		3,700.00	251.85
Traveling expenses.....		18,100.00	11,101.74
Equipment and material.....		13,000.00	1,129.21
Miscellaneous items.....		23,634.00	11,555.42
<b>Total.....</b>		<b>148,480.00</b>	<b>82,661.34</b>

- (111) For general administrative expenses connected with the above-mentioned lines of investigation, including the office of the chief of bureau, the assistant chief of bureau, the officers in charge of publications, records, supplies, and property, and for miscellaneous expenses incident thereto **[\$29,040]** (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; July 24, 1919, vol. 41, pp. 242-245, sec. 1*)..... \$25,980.00

Appropriation for 1911.....	\$42,811	Estimate for 1912.....	\$33,251
Appropriation for 1912.....	38,251	Estimate for 1913.....	36,530
Appropriation for 1913.....	36,530	Estimate for 1914.....	35,690
Appropriation for 1914.....	35,690	Estimate for 1915.....	32,490
Appropriation for 1915.....	32,490	Estimate for 1916.....	32,490
Appropriation for 1916.....	32,490	Estimate for 1917.....	31,020
Appropriation for 1917.....	31,020	Estimate for 1918.....	31,020
Appropriation for 1918.....	31,020	Estimate for 1919.....	31,020
Appropriation for 1919.....	31,020	Estimate for 1920.....	29,040
Appropriation for 1920.....	29,040	Estimate for 1921.....	25,980

NOTE.—There is a decrease in this item of \$3,060, due to the transfer to the statutory roll of this bureau of 1 executive clerk at \$1,980, and the transfer of 1 fireman at \$1,080 to the statutory roll of the Office of the Secretary.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Physiologist and associate			
chief of bureau.....per annum..	\$4,500.00	1	1 (pt. time).
Scientific assistant.....do.....	2,040.00	1	1
Scientific assistant.....do.....	1,980.00	..	1 (temp.)
Scientific assistant.....do.....	1,800.00	1	1
Scientific assistant.....do.....	1,680.00	1	1
Assistant.....do.....	1,800.00	1 (temp.)	..
Assistants.....do.....	1,200.00	4	..
Assistants.....do.....	1,100.00	1	..
Botanical assistant.....do.....	1,600.00	1	1
Cabinet maker.....do.....	1,200.00	..	1 (temp.)
Laboratory aid.....do.....	1,020.00	..	1 (temp.)
Clerks.....do.....	1,980.00	..	2
Clerks.....do.....	1,200.00	..	6 (temp.)
Clerks.....do.....	1,100.00	..	4 (3 temp.)
Multigraph operator.....do.....	1,000.00	..	1 (temp.)
Collaborator.....per month.....	375.00	..	1
Messengers, charwomen, and			
collaborators.....per annum.....	\$4.80 to \$1	1	9 (8 temp.)
collaborators.....per month.....	\$1.00	1	1





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Bureau of Plant Industry—Continued.*

Employees.	Rate.	Estimated 1921.	Expended, 1919.
Wages:		<i>Number.</i>	<i>Number.</i>
Miscellaneous temporary labor, {do.....	\$75 to \$50	1	3
{per diem..	\$3.36	..	2
		13	37
Salaries.....		\$16,160.00	\$20,733.18
Wages.....		500.00	488.74
Other objects of expenditure:			
Stationery.....		2,000.00	1,841.96
Traveling expenses.....		4,000.00	4,015.13
Equipment and material.....		1,000.00	2,904.97
Telephone and telegraph service.....		700.00	706.54
Miscellaneous items.....		1,620.00	2,029.51
Total.....		25,980.00	32,720.03

In all, for general expenses.....\$2,721,158.00 \$2,529,378.00

Appropriations for 1911..... \$1,193,346	Estimates for 1912..... \$1,347,326
Appropriations for 1912..... 1,441,536	Estimates for 1913..... 1,438,590
Appropriations for 1913..... 1,658,030	Estimates for 1914..... 2,099,650
Appropriations for 1914..... 1,944,305	Estimates for 1915..... 2,237,135
Appropriations for 1915..... 2,880,875	Estimates for 1916..... 1,573,275
Appropriations for 1916..... 1,462,460	Estimates for 1917..... 1,571,990
Deficiency act..... 329,000	
Appropriations for 1917..... 1,866,340	Estimates for 1918..... 1,974,530
Appropriations for 1918..... 2,480,530	Estimates for 1919..... 2,215,698
Appropriations for 1919..... 2,454,698	Estimates for 1920..... 2,560,438
Appropriations for 1920..... 2,529,378	Estimates for 1921..... 2,721,158

*Purchase and Distribution of Valuable Seeds—*

- (112) For purchase, propagation, testing, and congressional distribution of valuable seeds, bulbs, trees, shrubs, vines, cuttings, and plants; all necessary office fixtures and supplies, fuel, transportation, paper, twine, gum, postal cards, gas, electric current, rent outside of the District of Columbia, official traveling expenses, and all necessary material and repairs for putting up and distributing the same; for repairs and the employment of local and special agents, clerks, assistants, and other labor required, in the city of Washington and elsewhere, **[\$358,980]** \$355,980. And the Secretary of Agriculture is hereby directed to expend the said sum, as nearly as practicable, in the purchase, testing, and distribution of such valuable seeds, bulbs, shrubs, vines, cuttings, and plants, the best he can obtain at public or private sale, and such as shall be suitable for the respective localities to which the same are to be apportioned, and in which same are to be distributed as hereinafter stated, and such seeds so purchased shall include a variety of vegetable and flower seeds suitable for planting and culture in the various sections of the United States: *Provided*, That the Secretary of Agriculture, after due advertisement and on competitive bids, is authorized to award the contract for the supplying of printed packets and envelopes and the packeting, assembling, and mailing of the seeds, bulbs, shrubs, vines, cuttings, and plants, or any part thereof, for a period of not more than five years nor less than one year, if by such action he can best protect the interests of the United States. An equal proportion of five-sixths of all seeds, bulbs, shrubs, vines, cuttings, and plants, shall upon their request, after due notification by the Secretary of Agriculture, that the allotment to their respective districts is ready for distribution, be supplied to Senators, Representatives, and Delegates in Congress for distribution among their constituents, or mailed by the department upon the receipt of their addressed franks, in packages of such weight as the Secretary of Agriculture and





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*Purchase and Distribution of Valuable Seeds—Continued.*

the Postmaster General may jointly determine: *Provided, however,* That upon each envelope or wrapper containing packages of seeds the contents thereof shall be plainly indicated, and the Secretary shall not distribute to any Senator, Representative, or Delegate seeds entirely unfit for the climate and locality he represents, but shall distribute the same so that each Member may have seeds of equal value, as near as may be, and the best adapted to the locality he represents: *Provided also,* That the seeds allotted to Senators and Representatives for distribution in the districts embraced within the twenty-fifth and thirty-fourth parallels of latitude shall be ready for delivery not later than the 10th day of January: *Provided also,* That any portion of the allotments to Senators, Representatives, and Delegates in Congress remaining uncalled for on the 1st day of April shall be distributed by the Secretary of Agriculture, giving preference to those persons whose names and addresses have been furnished by Senators and Representatives in Congress and who have not before during the same season been supplied by the department: *And provided also,* That the Secretary shall report, as provided in this act, the place, quantity, and price of seeds purchased, and the date of purchase; but nothing in this paragraph shall be construed to prevent the Secretary of Agriculture from sending seeds to those who apply for the same. And the amount herein appropriated shall not be diverted or used for any other purpose but for the purchase, testing, propagation, and distribution of valuable seeds, bulbs, mulberry and other rare and valuable trees, shrubs, vines, cuttings, and plants (*act July 24, 1919, vol. 41, p. 246, sec. 1*) -----

\$355,980.00

\$358,980.00

Appropriation for 1911.....	\$309,590	Estimate for 1912.....	\$301,680
Appropriation for 1912.....	289,680	Estimate for 1913.....	285,680
Appropriation for 1913.....	285,680	Estimate for 1914.....	263,900
Appropriation for 1914.....	296,000	Estimate for 1915.....	.....
Appropriation for 1915.....	257,000	Estimate for 1916.....	252,540
Appropriation for 1916.....	252,540	Estimate for 1917.....	252,540
Appropriation for 1917.....	252,540	Estimate for 1918.....	243,720
Appropriation for 1918.....	243,720	Estimate for 1919.....	242,320
Appropriation for 1919.....	242,320	Estimate for 1920.....	239,320
Appropriation for 1920.....	358,980	Estimate for 1921.....	355,980

NOTE.—There is a decrease in this item of \$3,000, due to transfers to the statutory roll.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Agronomist in charge.....per annum..	\$3,500.00	1	..
Agronomist in charge.....do.....	3,240.00	..	1
Superintendents.....do.....	3,240.00	1	..
Superintendents.....do.....	3,000.00	1	2
Horticulturist.....do.....	2,460.00	1	1 (pt. time)
Clerks.....do.....	1,800.00	..	2
Clerks.....do.....	1,200.00	..	4 (3 temp.)
Assistant superintendent seed warehouse.....do.....	1,200.00	1	1
Assistants.....do.....	1,200.00	2	..
Messenger boy and student assistant— \$480 to \$300.....do.....	.....	1	1 (temp.)
<b>Wages:</b>			
Miscellaneous temporary labor.per diem..	\$3 to \$2	..	11
		8	23
Salaries.....		\$17,300.00	\$17,686.42
Wages.....			890.50
<b>Other objects of expenditure:</b>			
Stationery.....		5,000.00	1,140.26
Traveling expenses.....		3,000.00	1,029.77
Equipment and material.....		5,000.00	1,354.22
Miscellaneous items (including seeds).....		325,680.00	217,315.51
<b>Total.....</b>		<b>355,980.00</b>	<b>239,416.68</b>





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—BUREAU OF PLANT INDUSTRY.		
2 clerks, at \$1,980 each per annum.   13 clerks, at \$1,100 each per annum. 1 clerk, \$1,800 per annum.   5 clerks, at \$1,080 each per annum. 3 clerks, at \$1,600 each per annum.   13 clerks, at \$1,000 each per annum. 2 clerks, at \$1,500 each per annum.   1 clerk, \$960 per annum. 5 clerks, at \$1,400 each per annum.   4 clerks, at \$900 each per annum. 3 clerks, at \$1,320 each per annum.   1 clerk, \$720 per annum. 59 clerks, at \$1,200 each per annum.   2 clerks, at \$540 each per annum. 1 clerk, \$1,140 per annum.		
PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS.		
2 clerks, at \$1,800 each per annum.   4 clerks, at \$1,200 each per annum.		
Total for Bureau of Plant Industry .....	\$3, 606, 898. 00	\$3, 379, 638.00



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p style="text-align: center;">FOREST SERVICE.</p> <p><i>Salaries, Forest Service—</i></p>		
(1) One forester, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; July 24, 1919, p. 247, sec. 1</i> )-----	\$5, 000. 00	
(2) One chief of office of accounts and fiscal agent ( <i>same acts</i> )---	2, 500. 00	
(3) One inspector of records ( <i>same acts</i> )-----	2, 400. 00	
(4) Seven district fiscal agents, at \$2,120 each ( <i>same acts</i> )-----	14, 840. 00	
(5) [One forest supervisor, \$3,040; one forest supervisor, \$2,700; eight forest supervisors, at \$2,400 each; twenty forest supervisors, at \$2,200 each; forty-nine forest supervisors, at \$2,000 each; sixty-six forest supervisors, at \$1,800 each; five forest supervisors, at \$1,600 each; one deputy forest supervisor, \$1,800; four deputy forest supervisors, at \$1,700 each; twenty-eight deputy forest supervisors, at \$1,600 each; thirty-one deputy forest supervisors, at \$1,500 each; eighteen deputy forest supervisors, at \$1,400 each; eleven forest rangers, at \$1,500 each; twenty-three forest rangers, at \$1,400 each; seventy-eight forest rangers, at \$1,300 each; two hundred and eighty-eight forest rangers, at \$1,200 each; six hundred and thirty forest rangers, at \$1,100 each; one hundred forest guards, at \$1,100 each, for periods not exceeding six months in the aggregate; forty forest guards, at \$1,100 each, for periods not exceeding three months in the aggregate.]		
<p>NOTE.—These places, aggregating \$1,673,540, are transferred to and covered by a special lump-fund item under General Expenses. This is the field administrative organization directly protecting the national forests and conducting the business thereon with the public. Distributed among 151 national forests in 24 States, Alaska, and Porto Rico, they develop during the year so many insistent needs for adjustments to meet the changing conditions in the different localities that effective conduct of the business demands greater flexibility than is afforded by the statutory roll. In one region improved transportation may make possible the consolidation of two small units; or in some other region a constant increase in business may require the division of a large unit. Such changes, so frequently arising, require changes in organization and allotments which can not be accomplished under the limitations of the statutory roll. Furthermore, in many places it is impossible to secure forest guards at existing statutory rates. These men, being appointed for short-term periods, must be secured locally, thereby assuring familiarity with the region in which they are employed. In many places satisfactory men can be secured at less than the statutory rates; in other places the prevailing wage for efficient unskilled laborers exceeds the statutory rates. To obtain satisfactory men in such regions, the approximate standard wages must be paid. Unavoidable readjustments during the coming year incident to the return of men from military duty, resumption of peace-time activities, and prevailing economic and social unrest will be difficult to meet at the best. If the national forests are to be satisfactorily protected and the business thereon conducted effectively, this additional latitude is indispensable. The only other alternative is a very substantial increase in the statutory roll. With the exception of forest guards, who are short-term employees, the work of forest supervisors, deputy forest supervisors, and forest rangers is in a large measure of a technical character, which fact should throw them in the technical class of employees who have uniformly been carried on lump-fund rolls. The change proposed is in the interest of economy and efficiency and does not involve any increase in the present appropriation.</p>		
(6) One clerk ( <i>same acts</i> )-----	2, 100. 00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Forest Service—Continued.</i>		
(7) Four clerks, at \$2,000 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; July 24, 1919, p. 247, sec. 1</i> ) .....	\$8,000.00	
(8) Nineteen clerks, at \$1,800 each ( <i>same acts</i> ) .....	34,200.00	
(9) Twenty-one clerks, at \$1,600 each ( <i>same acts</i> ) .....	33,600.00	
(10) Nine clerks, at \$1,500 each ( <i>same acts</i> ) .....	13,500.00	
(11) Twenty-three clerks, at \$1,400 each ( <i>same acts</i> ) .....	32,200.00	
(12) Nine clerks, at \$1,300 each ( <i>same acts</i> ) .....	11,700.00	
(13) One hundred and thirty-eight clerks, at \$1,200 each ( <i>same acts</i> ) .....	165,600.00	
(14) Ninety-five clerks, at \$1,100 each ( <i>same acts</i> ) .....	104,500.00	
(15) Fifty-four clerks, at \$1,020 each ( <i>same acts</i> ) .....	55,080.00	
(16) Thirty clerks, at \$960 each ( <i>same acts</i> ) .....	28,800.00	
(17) One hundred and twenty-two clerks, at \$900 each ( <i>same acts</i> ) ..	109,800.00	
(18) Two clerks, at \$840 each ( <i>same acts</i> ) .....	1,680.00	
(19) One clerk ( <i>same acts</i> ) .....	600.00	
(20) One clerk or proof reader ( <i>same acts</i> ) .....	1,400.00	
(21) One clerk or translator ( <i>same acts</i> ) .....	1,400.00	
(22) One compiler ( <i>same acts</i> ) .....	1,800.00	
(23) One draftsman ( <i>same acts</i> ) .....	2,000.00	
(24) Two draftsmen or surveyors, at \$1,800 each ( <i>same acts</i> ) .....	3,600.00	
(25) Three draftsmen, at \$1,600 each ( <i>same acts</i> ) .....	4,800.00	
(26) One clerk or compositor ( <i>same acts</i> ) .....	1,600.00	
(27) Three draftsmen or surveyors, at \$1,600 each ( <i>same acts</i> ) .....	4,800.00	
(28) Sixteen draftsmen or surveyors, at \$1,500 each ( <i>same acts</i> ) ..	24,000.00	
(29) Six draftsmen or surveyors, at \$1,400 each ( <i>same acts</i> ) .....	8,400.00	
(30) Two draftsmen, at \$1,500 each ( <i>same acts</i> ) .....	3,000.00	
(31) Nine draftsmen, at \$1,400 each ( <i>same acts</i> ) .....	12,600.00	
(32) Four draftsmen, at \$1,300 each ( <i>same acts</i> ) .....	5,200.00	
(33) Sixteen draftsmen, at \$1,200 each ( <i>same acts</i> ) .....	19,200.00	
(34) Two draftsmen, at \$1,100 each ( <i>same acts</i> ) .....	2,200.00	
(35) Three draftsmen, at \$1,020 each ( <i>same acts</i> ) .....	3,060.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Forest Service—Continued.</i>		
(36) One draftsman ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; July 24, 1919, p. 247, sec. 1</i> )-----	\$1,000.00	
(37) One draftsman ( <i>same acts</i> )-----	960.00	
(38) Twelve draftsmen or map colorists, at \$900 each ( <i>same acts</i> )--	10,800.00	
(39) One draftsman or artist ( <i>same acts</i> )-----	1,200.00	
(40) One draftsman or negative cutter ( <i>same acts</i> )-----	1,200.00	
(41) One artist ( <i>same acts</i> )-----	1,600.00	
(42) One artist ( <i>same acts</i> )-----	1,000.00	
(43) One photographer ( <i>same acts</i> )-----	1,600.00	
(44) One photographer ( <i>same acts</i> )-----	1,400.00	
(45) One photographer ( <i>same acts</i> )-----	1,200.00	
(46) One photographer ( <i>same acts</i> )-----	1,100.00	
(47) One lithographer or photographer ( <i>same acts</i> )-----	1,200.00	
(48) One lithographer's helper ( <i>same acts</i> )-----	780.00	
(49) One blue-printer ( <i>same acts</i> )-----	900.00	
(50) One blue-printer ( <i>same acts</i> )-----	720.00	
(51) Two telephone operators, at \$600 each ( <i>same acts</i> )-----	1,200.00	
(52) One machinist ( <i>same acts</i> )-----	1,260.00	
(53) Two carpenters, at \$1,200 each ( <i>same acts</i> )-----	2,400.00	
(54) Three carpenters, at \$1,000 each ( <i>same acts</i> )-----	3,000.00	
(55) One carpenter ( <i>same acts</i> )-----	960.00	
(56) One electrician ( <i>same acts</i> )-----	1,020.00	
(57) One laboratory aid and engineer ( <i>same acts</i> )-----	1,000.00	
(58) Nine laboratory aids and engineers, at \$900 each ( <i>same acts</i> )--	8,100.00	
(59) Two laboratory aids and engineers, at \$800 each ( <i>same acts</i> )--	1,600.00	
(60) One laboratory helper ( <i>same acts</i> )-----	720.00	
(61) One laboratory helper ( <i>same acts</i> )-----	600.00	
(62) One packer ( <i>same acts</i> )-----	1,000.00	
(63) One packer ( <i>same acts</i> )-----	780.00	
(64) Four watchmen, at \$840 each ( <i>same acts</i> )-----	3,360.00	



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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Forest Service—Continued.</i>			
(65)	Two messengers or laborers, at \$960 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; July 24, 1919, p. 247, sec. 1</i> ) .....	\$1,920.00	
(66)	Three messengers or laborers, at \$900 each ( <i>same acts</i> ) .....	2,700.00	
(67)	Four messengers or laborers, at \$840 each ( <i>same acts</i> ) .....	3,360.00	
(68)	Three messengers or laborers, at \$780 each ( <i>same acts</i> ) .....	2,340.00	
(69)	Five messengers or laborers, at \$720 each ( <i>same acts</i> ) .....	3,600.00	
(70)	Six messengers or laborers, at \$660 each ( <i>same acts</i> ) .....	3,960.00	
(71)	Five messenger boys, at \$600 each ( <i>same acts</i> ) .....	3,000.00	
(72)	Two messenger boys, at \$540 each ( <i>same acts</i> ) .....	1,080.00	
(73)	Three messenger boys, at \$480 each ( <i>same acts</i> ) .....	1,440.00	
(74)	Three messenger boys, at \$420 each ( <i>same acts</i> ) .....	1,260.00	
(75)	Thirteen messenger boys, at \$360 each ( <i>same acts</i> ) .....	4,680.00	
(76)	One charwoman ( <i>same acts</i> ) .....	540.00	
(77)	One charwoman ( <i>same acts</i> ) .....	480.00	
(78)	One charwoman ( <i>same acts</i> ) .....	300.00	
(79)	Eleven charwomen, at \$240 each ( <i>same acts</i> ) .....	2,640.00	
		\$812,120.00	\$2,485,660.00
Appropriations for 1911..... \$60,200		Estimates for 1912.....	\$2,318,680
Appropriations for 1912..... 2,318,680		Estimates for 1913.....	2,290,610
Appropriations for 1913..... 2,235,760		Estimates for 1914.....	2,212,810
Appropriations for 1914..... 2,239,560		Estimates for 1915.....	2,305,160
Appropriations for 1915..... 2,305,160		Estimates for 1916.....	2,335,580
Appropriations for 1916..... 2,335,580		Estimates for 1917.....	2,361,120
Appropriations for 1917..... 2,361,320		Estimates for 1918.....	2,449,580
Appropriations for 1918..... 2,447,800		Estimates for 1919.....	2,483,620
Appropriations for 1919..... 2,483,620		Estimates for 1920.....	2,485,420
Appropriations for 1920..... 2,485,660		Estimates for 1921.....	812,120
NOTE.—Apparent decrease, \$1,673,540, as follows:			
<i>Transfers to special lump-fund item under general expenses for employment of supervisors, rangers, and guards.</i>			
1 forest supervisor.....		\$3,040	
1 forest supervisor.....		2,700	
8 forest supervisors, at \$2,400 each.....		19,200	
20 forest supervisors, at \$2,200 each.....		44,000	
49 forest supervisors, at \$2,000 each.....		98,000	
66 forest supervisors, at \$1,800 each.....		118,800	
5 forest supervisors, at \$1,600 each.....		8,000	
1 deputy forest supervisor.....		1,800	
4 deputy forest supervisors, at \$1,700 each.....		6,800	
28 deputy forest supervisors, at \$1,600 each.....		44,800	
31 deputy forest supervisors, at \$1,500 each.....		46,500	
18 deputy forest supervisors, at \$1,400 each.....		25,200	
11 forest rangers, at \$1,500 each.....		16,500	
23 forest rangers, at \$1,400 each.....		32,200	
78 forest rangers, at \$1,300 each.....		101,400	
288 forest rangers, at \$1,200 each.....		345,600	
630 forest rangers, at \$1,100 each.....		693,000	
100 forest guards, at \$1,100 each, for periods not exceeding six months in the aggregate.....		55,000	
40 forest guards, at \$1,100 each, for periods not exceeding three months in the aggregate.....		11,000	
Apparent decrease.....		1,673,540	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<p><i>General Expenses, Forest Service—</i></p> <p>(80) To enable the Secretary of Agriculture to experiment and to make and continue investigations and report on forestry, national forests, forest fires, and lumbering, but no part of this appropriation shall be used for any experiment or test made outside the jurisdiction of the United States; to advise the owners of woodlands as to the proper care of the same; to investigate and test American timber and timber trees and their uses, and methods for the preservative treatment of timber; to seek, through investigations and the planting of native and foreign species, suitable trees for the treeless regions; to erect necessary buildings: <i>Provided</i>, That the cost of any building erected or improved shall not exceed <del>[\$800]</del> \$1,500; to pay all expenses necessary to protect, administer, and improve the national forests, including the payment of rewards under regulations of the Secretary of Agriculture for information leading to the arrest and conviction for violation of the laws and regulations relating to fires in or near national forests, or for the unlawful taking of, or injury to, Government property; to ascertain the natural conditions upon and utilize the national forests; and the Secretary of Agriculture may, in his discretion, permit timber and other forest products cut or removed from the national forests to be exported from the State or Territory in which said forests are respectively situated; to transport and care for fish and game supplied to stock the national forests or the waters therein; to employ agents, clerks, assistants, and other labor required in practical forestry and in the administration of national forests in the city of Washington and elsewhere; to collate, digest, report, and illustrate the results of experiments and investigations made by the Forest Service; to purchase necessary supplies, apparatus, office fixtures, law books, and technical books and technical journals for officers of the Forest Service stationed outside of Washington, and for medical supplies and services and other assistance necessary for immediate relief of artisans, laborers, and other employees engaged in any hazardous work under the Forest Service; to pay freight, express, telephone, and telegraph charges; for electric light and power, fuel, gas, ice, washing towels, and official traveling and other necessary expenses, including traveling expenses for legal and fiscal officers while performing Forest Service work; and for rent outside of the District of Columbia, as follows (<i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1</i>):</p> <p>NOTE.—It is proposed to amend the proviso under this paragraph so as to raise the limitation on the cost of buildings erected on national forests from \$800 to \$1,500 and to insert the words "or improved" after the word "erected."</p> <p>The construction of necessary buildings on the national forests was first authorized in the appropriation act for 1905, with a limitation of \$500. In 1905 the requirements were relatively primitive, corresponding to the undeveloped state of the national forests, the small volume of business, and the remoteness of most ranger stations from settlements and lines of travel. Last year an increase in the limitation from \$650, the amount fixed for the fiscal year 1912 and subsequent years, to \$1,500 was</p>		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
<p>asked, but an increase to only \$800 was allowed. This is insufficient. At the present time the construction of quarters for rangers at many points where in the interest of efficient protection they should be placed is impossible. Furthermore, it has come about that many of the forest officers are very inadequately and even meanly housed. The men must live where they are assigned. The accommodations which sufficed under wilderness conditions are no longer suitable for the class of men fitted to discharge the duties of district rangers or for the efficient performance of these duties. These men should have decent homes for their families which will permit of the maintenance of a respectable standard of living as well as afford a reasonably presentable appearance to the public. Not to provide such homes is destructive to morale and does not reflect credit to the Government. Relief of the situation demands that the limitation be raised to the full amount of \$1,500 asked a year ago. This will make possible a simple three or four room house suitable for a ranger's headquarters and habitable at all seasons. In the long run such houses will be far more economical than such poor makeshifts as can now be built, entirely apart from considerations of what is due the men and necessary on administrative grounds.</p> <p>The words "or improved" are added so that the proviso will cover cases where buildings have been constructed or partially constructed under the previous limit of \$650 or the present limit of \$800 but which still need further expenditures to put them into a fully habitable condition or prevent rapid deterioration. In some instances the sharp advance in prices of materials has not allowed the completion in all details of buildings under construction, and this has resulted in buildings that are not weatherproof, unfinished and unsightly, or otherwise partly unserviceable or temporary in character.</p>		
(81) <i>For employment of forest supervisors, deputy forest supervisors, forest rangers, and forest guards (submitted) . . .</i> \$1,673,540.00		
<p>NOTE.—These places are transferred from the statutory roll at the same salaries. See note under item 5.</p>		
(82) <i>For salaries of other employees and field and station expenses, including the maintenance of nurseries, collecting seed, and planting necessary for the use, maintenance, improvement, and protection of the national forests named below (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1):</i>		
<p>NOTE.—The words "of other employees" have been inserted after the words "for salaries" at the beginning of the paragraph so that it will be understood that the appropriations for the specific forests will in no case be used or be available for the payment of salaries of forest supervisors, deputy forest supervisors, forest rangers, and forest guards; and that these appropriations will be used when necessary for salaries of additional employees of technical grade, such as forest examiners, grazing examiners, lumbermen, and scalers and for providing for the normal protective force during the season of fire danger, such as patrolmen, look-outs, firemen, and smoke chasers, and for such other temporary assistants as may be needed from time to time on the national forests.</p>		
(83) Absaroka National Forest, Montana <b>【\$6,703】</b> . . . . . \$8, 600. 00		
(84) Angeles National Forest, California . . . . . 11, 926. 00		
(85) Apache National Forest, Arizona <b>【\$8,079】</b> . . . . . 10, 698. 00		
(86) Arapaho National Forest, Colorado <b>【\$5,736】</b> . . . . . 8, 236. 00		
<p>NOTE.—The spelling of the name of this forest is changed from "Arapahoe" to "Arapaho" to correct a typographical error.</p>		
(87) Arkansas National Forest, Arkansas <b>【\$10,730】</b> . . . 21, 690. 00		





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(88) Ashley National Forest, Utah and Wyoming.....	\$3,865.00	
(89) Battlement National Forest, Colorado.....	4,916.00	
(90) Beartooth National Forest, Montana [\$5,437]...	7,600.00	
(91) Beaverhead National Forest, Montana and Idaho [\$5,296].....	10,900.00	
(92) Bighorn National Forest, Wyoming.....	6,937.00	
(93) Bitterroot National Forest, Montana.....	17,189.00	
(94) Blackfeet National Forest, Montana.....	19,888.00	
(95) Black Hills National Forest, South Dakota and Wyoming.....	12,668.00	
(96) Boise National Forest, Idaho [\$5,247].....	8,539.00	
(97) Bridger National Forest, Wyoming [\$3,159].....	4,511.00	
(98) Cabinet National Forest, Montana [\$16,806].....	20,600.00	
(99) Cache National Forest, Utah and Idaho [\$2,207]..	6,080.00	
(100) California National Forest, California [\$15,028]..	17,890.00	
(101) Caribou National Forest, Idaho and Wyoming....	6,403.00	
(102) Carson National Forest, New Mexico [\$9,302]....	11,645.00	
(103) Cascade National Forest, Oregon [\$7,835].....	17,835.00	
(104) Challis National Forest, Idaho [\$3,668].....	5,639.00	
(105) Chelan National Forest, Washington [\$6,260]....	7,765.00	
(106) Chugach National Forest, Alaska.....	7,938.00	
(107) Clearwater National Forest, Idaho [\$38,201].....	48,000.00	
(108) Cleveland National Forest, California [\$8,433]...	10,683.00	
(109) Cochetopa National Forest, Colorado.....	5,931.00	
(110) Coconino National Forest, Arizona [\$21,673]....	23,173.00	
(111) Coeur d'Alene National Forest, Idaho, \$53,290: <i>Provided, That the Secretary of Agriculture is authorized to use not to exceed \$500 of the funds herein appropriated for the Coeur d'Alene National Forest for the marking of the graves in Wallace, Idaho, of thirteen men who lost their lives while fighting forest fires in the employ of the Forest Service on the Coeur d'Alene National Forest on August tenth, nineteen hundred and ten; including concrete curbing for the graves, and seeding, planting, and improving the plot.....</i>	53,290.00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
<p>NOTE.—A proviso has been added to provide authority to expend \$500 for marking the graves at Wallace, Idaho, of employees of the Forest Service who lost their lives in fighting forest fires. The graves have never been marked and are in an unkempt condition. As these men were from far distant parts of the country and have no relatives in Idaho to care for their graves, it is considered appropriate for the Government to have them suitably marked. This proviso will allow the use of funds for concrete curbing for the graves, three granite blocks suitably inscribed, and the seeding, planting, and improvement of the plot.</p>		
(112) Colorado National Forest, Colorado.....	\$7,459.00	
(113) Columbia National Forest, Washington <b>[\$9,758]</b> ..	19,864.00	
(114) Colville National Forest, Washington <b>[\$11,183]</b> ..	8,399.00	
(115) Coronado National Forest, Arizona and New Mexico <b>[\$11,050]</b> .....	11,550.00	
(116) Crater National Forest, Oregon and California <b>[\$22,688]</b> .....	27,456.00	
(117) Crook National Forest, Arizona <b>[\$3,735]</b> .....	5,488.00	
(118) Custer National Forest, Montana and South Dakota <b>[\$2,830]</b> .....	8,800.00	
<p>NOTE.—The words "and South Dakota" have been added, as it is proposed during the present fiscal year to consolidate the Sioux National Forest with the Custer National Forest under the latter name, and the consolidated area will include 80,389 acres in South Dakota.</p>		
(119) Datil National Forest, New Mexico <b>[\$13,950]</b> ....	14,634.00	
(120) Deerlodge National Forest, Montana <b>[\$19,813]</b> ...	20,650.00	
(121) Deschutes National Forest, Oregon <b>[\$10,175]</b> ....	15,430.00	
(122) Dixie National Forest, Utah, Arizona, and Nevada <b>[\$1,596]</b> .....	3,296.00	
(123) Durango National Forest, Colorado.....	4,964.00	
(124) Eldorado National Forest, California and Nevada <b>[\$10,238]</b> .....	7,988.00	
(125) Fillmore National Forest, Utah <b>[\$4,987]</b> .....	6,687.00	
(126) Fishlake National Forest, Utah <b>[\$2,320]</b> .....	4,788.00	
(127) Flathead National Forest, Montana.....	51,826.00	
(128) Florida National Forest, Florida <b>[\$4,927]</b> .....	7,327.00	
(129) Fremont National Forest, Oregon <b>[\$5,427]</b> .....	8,150.00	
(130) Gallatin National Forest, Montana <b>[\$4,810]</b> .....	7,390.00	
(131) Gila National Forest, New Mexico.....	10,847.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(132) Gunnison National Forest, Colorado.....	\$5,371.00	
(133) Harney National Forest, South Dakota <b>[\$6,535]</b> ..	9,035.00	
(134) Hayden National Forest, Wyoming and Colorado..	5,868.00	
(135) Helena National Forest, Montana <b>[\$4,012]</b> .....	8,300.00	
(136) Holy Cross National Forest, Colorado.....	6,394.00	
(137) Humboldt National Forest, Nevada <b>[\$6,330]</b> .....	9,104.00	
(138) Idaho National Forest, Idaho.....	18,385.00	
(139) Inyo National Forest, California and Nevada <b>[\$3,076]</b> .....	4,901.00	
(140) Jefferson National Forest, Montana <b>[\$8,430]</b> .....	9,150.00	
(141) Kaibab National Forest, Arizona <b>[\$2,708]</b> .....	4,020.00	
(142) Kaniksu National Forest, Idaho and Washington <b>[\$34,943]</b> .....	28,000.00	
(143) Klamath National Forest, California and Oregon <b>[\$20,249]</b> .....	22,564.00	
(144) Kootenai National Forest, Montana.....	26,102.00	
(145) La Sal National Forest, Utah and Colorado <b>[\$2,754]</b> .....	3,904.00	
(146) Lassen National Forest, California <b>[\$14,181]</b> .....	19,511.00	
(147) Leadville National Forest, Colorado.....	5,524.00	
(148) Lemhi National Forest, Idaho <b>[\$2,490]</b> .....	3,570.00	
(149) Lewis and Clark National Forest, Montana <b>[\$10,626]</b> .....	11,800.00	
(150) Lincoln National Forest, New Mexico.....	11,178.00	
(151) Lolo National Forest, Montana <b>[\$26,652]</b> .....	27,300.00	
(152) Luquillo National Forest, Porto Rico.....	1,700.00	
(153) Madison National Forest, Montana <b>[\$3,930]</b> .....	5,600.00	
(154) Malheur National Forest, Oregon <b>[\$6,091]</b> .....	8,360.00	
(155) Manti National Forest, Utah <b>[\$6,090]</b> .....	7,182.00	
(156) Manzano National Forest, New Mexico.....	5,860.00	
(157) Medicine Bow National Forest, Wyoming <b>[\$6,450]</b> ..	9,450.00	
(158) Michigan National Forest, Michigan.....	1,981.00	





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(159) <b>【Minam National Forest, Oregon, \$6,476】</b>		
NOTE.—This item is omitted, as it is proposed to consolidate the Minam National Forest with the Whitman National Forest prior to July 1, 1920, in the interest of their more efficient administration. The decrease in this appropriation is offset by a corresponding increase in the item for the Whitman National Forest.		
(160) Minidoka National Forest, Idaho and Utah <b>【\$4,709】</b> \$6,707. 00		
(161) Minnesota National Forest, Minnesota..... 2,970. 00		
(162) Missoula National Forest, Montana..... 15,212. 00		
(163) Modoc National Forest, California <b>【\$7,388】</b> ..... 10,713. 00		
(164) Mono National Forest, Nevada and California..... 1,647. 00		
(165) <b>【Monterey National Forest, California, \$3,547.】</b>		
NOTE.—This item is omitted, as the Monterey National Forest was consolidated by Executive order of August 18, 1919, with the Santa Barbara National Forest for the purpose of their more effective administration. The decrease in this appropriation is offset by a corresponding increase in the items for the Santa Barbara National Forest and other national forests in California where the need for more intensive fire protection has made necessary the employment of additional help.		
(166) Montezuma National Forest, Colorado..... 4,670. 00		
(167) Nebraska National Forest, Nebraska, \$1,165; and to extend the work to the Niobrara division thereof, \$5,000: <i>Provided</i> , That from the nurseries on said forest the Secretary of Agriculture, under such rules and regulations as he may prescribe, may furnish young trees free, so far as they may be spared, to residents of the territory covered by "An act increasing the area of homesteads in a portion of Nebraska," approved April 28, 1904..... 6,165. 00		
(168) Nevada National Forest, Nevada <b>【\$2,249】</b> ..... 3,339. 00		
(169) Nezperce National Forest, Idaho..... 25,690. 00		
NOTE.—The spelling of the name of this forest is changed from "Nez Perce" to "Nezperce" to correct a typographical error.		
(170) Ochoco National Forest, Oregon <b>【\$6,451】</b> ..... 7,896. 00		
(171) Okanogan National Forest, Washington..... 11,464. 00		
(172) Olympic National Forest, Washington <b>【\$16,598】</b> .. 19,365. 00		
(173) Oregon National Forest, Oregon <b>【\$20,409】</b> ..... 25,150. 00		
(174) Ozark National Forest, Arkansas..... 9,030. 00		
(175) Payette National Forest, Idaho <b>【\$8,537】</b> ..... 10,666. 00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(176) Pend Oreille National Forest, Idaho <b>【\$20,074】</b> . . . . .	\$20,600.00	
(177) Pike National Forest, Colorado . . . . .	13,373.00	
(178) Plumas National Forest, California <b>【\$19,803】</b> . . . . .	27,145.00	
(179) Powell National Forest, Utah <b>【\$1,010】</b> . . . . .	2,295.00	
(180) Prescott National Forest, Arizona <b>【\$6,255】</b> . . . . .	7,568.00	
(181) Rainier National Forest, Washington <b>【\$13,035】</b> . . . . .	22,247.00	
(182) Rio Grande National Forest, Colorado . . . . .	7,157.00	
(183) Routt National Forest, Colorado . . . . .	6,585.00	
(184) <b>【Saint Joe National Forest, Idaho, \$32,026.】</b>		
NOTE.—The position of this forest in the alphabetical list of forests has been changed so as to follow the Stanislaus National Forest, California. See note under item 205.		
(185) Salmon National Forest, Idaho <b>【\$6,177】</b> . . . . .	8,275.00	
(186) San Isabel National Forest, Colorado . . . . .	3,924.00	
(187) San Juan National Forest, Colorado . . . . .	5,534.00	
(188) Santa Barbara National Forest, California <b>【\$9,774】</b> . . . . .	10,774.00	
(189) Santa Fe National Forest, New Mexico <b>【\$17,040】</b> . . . . .	18,540.00	
(190) Santiam National Forest, Oregon <b>【\$7,852】</b> . . . . .	9,420.00	
(191) Sawtooth National Forest, Idaho <b>【\$4,953】</b> . . . . .	7,041.00	
(192) Selway National Forest, Idaho . . . . .	47,367.00	
(193) Sequoia National Forest, California <b>【\$13,744】</b> . . . . .	14,581.00	
(194) Sevier National Forest, Utah . . . . .	2,110.00	
(195) Shasta National Forest, California <b>【\$17,425】</b> . . . . .	23,940.00	
(196) Shoshone National Forest, Wyoming . . . . .	7,381.00	
(197) Sierra National Forest, California <b>【\$15,750】</b> . . . . .	19,654.00	
(198) <b>【Sioux National Forest, South Dakota and Montana, \$2,640】</b> . . . . .		
NOTE.—See note under item 118. The decrease in this appropriation is offset by a corresponding increase to the item for Custer National Forest.		
(199) Siskiyou National Forest, Oregon and California <b>【\$12,660】</b> . . . . .	28,368.00	
(200) Sitgreaves National Forest, Arizona . . . . .	8,341.00	
(201) Siuslaw National Forest, Oregon <b>【\$6,042】</b> . . . . .	7,144.00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(202) Snoqualmie National Forest, Washington <del>【\$13,566】</del> \$23,399.00		
(203) Sopris National Forest, Colorado..... 5,411.00		
(204) Stanislaus National Forest, California <del>【\$14,697】</del> 17,953.00		
(205) St. Joe National Forest, Idaho..... 32,026.00		
NOTE.—The spelling of the name of this forest is changed from "Saint Joe" to "St. Joe" to correct a typographical error. See note under item 184.		
(206) Superior National Forest, Minnesota..... 9,809.00		
(207) Tahoe National Forest, California and Nevada <del>【\$16,337】</del> 18,250.00		
(208) Targhee National Forest, Idaho and Wyoming <del>【\$9,558】</del> 10,508.00		
(209) Teton National Forest, Wyoming <del>【\$4,404】</del> 4,992.00		
(210) Toiyabe National Forest, Nevada..... 3,694.00		
(211) Tongass National Forest, Alaska <del>【\$15,224】</del> 20,395.00		
(212) Tonto National Forest, Arizona <del>【\$7,685】</del> 8,085.00		
(213) Trinity National Forest, California <del>【\$19,484】</del> 22,408.00		
(214) Tusayan National Forest, Arizona <del>【\$12,904】</del> 8,819.00		
(215) Uinta National Forest, Utah <del>【\$4,555】</del> 8,213.00		
NOTE.—The spelling of the name of this forest is changed from "Uintah" to "Uinta" to correct a typographical error.		
(216) Umatilla National Forest, Oregon <del>【\$6,562】</del> 7,960.00		
(217) Umpqua National Forest, Oregon <del>【\$13,509】</del> 18,595.00		
(218) Uncompahgre National Forest, Colorado..... 6,690.00		
(219) Wallowa National Forest, Oregon <del>【\$9,617】</del> 13,549.00		
(220) Wasatch National Forest, Utah <del>【\$5,000】</del> 6,700.00		
(221) Washakie National Forest, Wyoming..... 6,726.00		
(222) Washington National Forest, Washington <del>【\$7,642】</del> 8,005.00		
(223) Weiser National Forest, Idaho <del>【\$6,493】</del> 7,343.00		
(224) Wenaha National Forest, Washington and Oregon <del>【\$5,420】</del> 9,432.00		
(225) Wenatchee National Forest, Washington..... 11,884.00		
(226) White River National Forest, Colorado..... 6,272.00		
(227) Whitman National Forest, Oregon <del>【\$18,725】</del> 28,226.00		



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(228) Wichita National Forest, Oklahoma <b>【\$2,416】</b> ---	5, 016. 00	
(229) Wyoming National Forest, Wyoming <b>【\$5,089】</b> --	7, 817. 00	
(230) Additional national forests created or to be created under section 11 of the Act of March 1, 1911 (Thirty-sixth Statutes at Large, page 963), and lands under contract for purchase or for the acquisition of which condemnation proceedings have been instituted for the purposes of said Act <b>【\$76,850】</b> -----	84, 750. 00	
For necessary miscellaneous expenses incident to the general administration of the Forest Service and of the national forests specified above:		
(231) In National Forest District One-----	61, 700. 00	
(232) In National Forest District Two-----	47, 800. 00	
(233) In National Forest District Three-----	55, 200. 00	
(234) In National Forest District Four-----	49, 500. 00	
(235) In National Forest District Five-----	69, 740. 00	
(236) In National Forest District Six-----	60, 800. 00	
(237) In National Forest District Seven-----	14, 900. 00	
(238) In the District of Columbia <b>【\$122,850】</b> -----	120, 330. 00	
NOTE.—There is an apparent decrease in this item of \$2,520, due to the transfer of an employee receiving that salary to the statutory roll of the Division of Publications.		
(239) In all, for the use, maintenance, improvement, protection, and general administration of the specified national forests, <b>【\$2,069,201】</b> \$4,000,627: <i>Provided</i> , That the foregoing amounts appropriated for such purposes shall be available interchangeably in the discretion of the Secretary of Agriculture for the necessary expenditures for fire protection and other unforeseen exigencies: <i>Provided further</i> , That the amounts so interchanged shall not exceed in the aggregate 10 per centum of all the amounts so appropriated (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1) -----	\$4,000,627.00	
Appropriation for 1911.....	\$3,861,624	Estimate for 1912.....
Appropriation for 1912.....	1,885,852	Estimate for 1913.....
Appropriation for 1913.....	1,901,377	Estimate for 1914.....
Appropriation for 1914.....	1,895,591	Estimate for 1915.....
Appropriation for 1915.....	1,888,568	Estimate for 1916.....
Appropriation for 1916.....	1,811,148	Estimate for 1917.....
Appropriation for 1917.....	1,800,307	Estimate for 1918.....
Appropriation for 1918.....	1,817,567	Estimate for 1919.....
Appropriation for 1919.....	1,803,127	Estimate for 1920.....
Appropriation for 1920.....	2,069,201	Estimate for 1921.....





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Forest Service—Continued.

NOTE.—There is an apparent increase in this item of \$1,931,426, but taking into consideration the transfer from the statutory roll to a separate lump fund item of the forest supervisors, deputy forest supervisors, forest rangers, and forest guards enumerated in item 5, with salaries aggregating \$1,673,540, and the transfer from the item for general administration in the District of Columbia to the statutory roll of the Division of Publications of an assistant in charge of motion picture activities at \$2,520, the actual increase is \$260,406. This results from changes in 97 of the individual forest items providing for increases in 90, amounting to \$298,131, and decreases in 7, amounting to \$28,725. Of the net increase of \$260,406, \$136,672 is for additional fire protection; \$69,438 for timber sales and forest management on the national forests; \$35,528 for grazing administration; \$2,600 for the care of buffalo and game on the Wichita National Forest and Game Preserve, Oklahoma; and \$16,168 for increased costs of travel and other miscellaneous items of general expenses in connection with the administration of the national forests.

The volume of business to be transacted on the individual forests necessarily fluctuates as conditions with respect to timber sales, number of stock grazed, and other forms of activity involved in the use of the forests vary from year to year. Such fluctuations, to the extent that they can be foreseen, are provided for by corresponding readjustments in the items, which have in view merely the shifting of personnel and activities from one forest to another to better meet the demands, and the decreases are based on the assumption of equivalent increases elsewhere. In addition to the changes proposed to meet fluctuations, a number of increases for which corresponding decreases can not be made are necessary to provide for the growing business with the public and the increasing cost of labor, rent, horse feed, and similar items. A marked revival in timber sales is under way, while the number of live stock on the forests, increased as an emergency measure during the war, will unquestionably remain larger than it was before the war; and other forms of use, particularly recreation use, are also on the increase.

The increases in the individual items have also in view better provision for protecting the forests against fires. Increases for additional fire protection totaling \$225,568 were made in 26 individual items in the appropriations for the fiscal year 1920, but the act did not become effective in time to enable the funds to be used in the expansion of the protective system designed to prevent the fires from gathering headway. The very widespread and destructive fires of the past season, involving expenditures for their suppression which have forced a request for a deficiency appropriation of \$2,950,000, have made apparent the necessity for still further strengthening the protective organization if such recurring emergency situations are to be held in check.

The increases and decreases for individual forests are indicated by the following table:

National forest.	Appropriation, 1920.	Appropriation, 1921.	Increase.	Decrease.
Absaroka.....	\$6,703	\$8,600	\$1,897	.....
Apache.....	8,079	10,098	2,019	.....
Arapaho.....	5,736	8,236	2,500	.....
Arkansas.....	10,730	21,690	10,960	.....
Beartooth.....	5,437	7,600	2,163	.....
Beaverhead.....	5,296	10,900	5,604	.....
Boise.....	5,247	8,539	3,292	.....
Bridger.....	3,159	4,511	1,352	.....
Cabinet.....	16,806	20,000	3,194	.....
Cache.....	2,207	6,080	3,873	.....
California.....	15,028	17,890	2,862	.....
Carson.....	9,302	11,645	2,343	.....
Cascade.....	7,835	17,835	10,000	.....
Challis.....	3,668	5,639	1,971	.....
Chelan.....	6,260	7,765	1,505	.....
Clearwater.....	38,201	48,000	9,799	.....
Cleveland.....	8,433	10,683	2,250	.....
Cocconino.....	21,673	23,173	1,500	.....
Columbia.....	9,758	19,864	10,106	.....
Colville.....	11,183	8,399	.....	2,784
Coronado.....	11,050	11,550	500	.....
Crater.....	22,688	27,456	4,768	.....
Crook.....	3,735	5,488	1,753	.....
Custer.....	2,830	8,800	5,970	.....
Datil.....	13,950	14,634	684	.....
Deerlodge.....	19,813	20,650	837	.....
Deschutes.....	10,175	15,430	5,255	.....
Dixie.....	1,596	3,296	1,700	.....
Eldorado.....	10,238	7,988	.....	2,250
Fillmore.....	4,987	6,687	1,700	.....
Fishlake.....	2,320	4,788	2,468	.....
Florida.....	4,927	7,327	2,400	.....





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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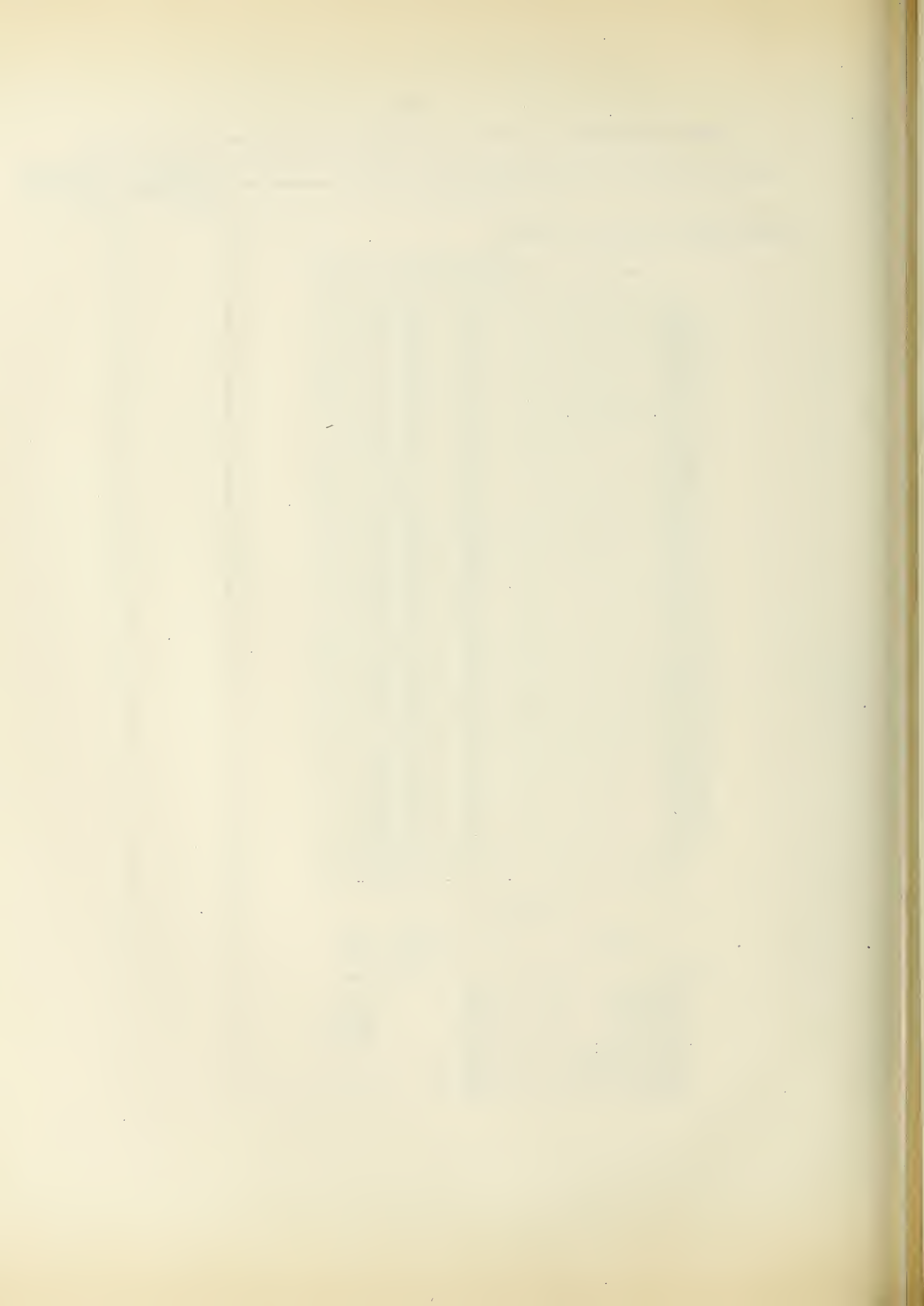
## General Expenses, Forest Service—Continued.

National Forest.	Appropriation, 1920.	Appropriation, 1921.	Increase.	Decrease.
Fremont.....	\$5,427	\$3,150	\$2,273	.....
Gallatin.....	4,810	7,390	2,580	.....
Harney.....	6,535	9,035	2,500	.....
Helena.....	4,012	8,300	4,288	.....
Humboldt.....	6,330	9,104	2,774	.....
Inyo.....	3,076	4,901	1,825	.....
Jefferson.....	8,430	9,150	720	.....
Kaibab.....	2,708	4,020	1,312	.....
Kaniksu.....	34,943	28,000	.....	\$6,943
Klamath.....	20,249	22,564	2,315	.....
La Sal.....	2,754	3,904	1,150	.....
Lassen.....	14,181	19,511	5,330	.....
Lemhi.....	2,490	3,570	1,080	.....
Lewis and Clark.....	10,625	11,800	1,174	.....
Lolo.....	26,652	27,300	648	.....
Madison.....	3,930	5,600	1,670	.....
Malheur.....	6,091	8,360	2,269	.....
Manti.....	6,090	7,182	1,092	.....
Medicine Bow.....	6,450	9,450	3,000	.....
Minam.....	6,476	.....	.....	6,476
Minidoka.....	4,709	6,707	1,998	.....
Modoc.....	7,388	10,713	3,325	.....
Monterey.....	3,547	.....	.....	3,547
Nevada.....	2,249	3,339	1,090	.....
Oehoco.....	6,451	7,896	1,445	.....
Olympic.....	16,598	19,365	2,767	.....
Oregon.....	20,409	25,150	4,741	.....
Payette.....	8,537	10,666	2,129	.....
Pend Oreille.....	20,074	20,000	.....	526
Plumas.....	19,803	27,145	7,342	.....
Powell.....	1,010	2,295	1,285	.....
Prescott.....	6,255	7,568	1,313	.....
Rainier.....	13,035	22,247	9,212	.....
Salmon.....	6,177	8,275	2,098	.....
Santa Barbara.....	9,774	10,774	1,000	.....
Santa Fe.....	17,040	18,540	1,500	.....
Santiam.....	7,852	9,420	1,568	.....
Sawtooth.....	4,953	7,041	2,088	.....
Sequoia.....	13,744	14,581	837	.....
Shasta.....	17,425	23,940	6,515	.....
Sierra.....	15,750	19,654	3,904	.....
Sioux.....	2,640	.....	.....	2,640
Siskiyou.....	12,660	28,368	15,708	.....
Siuslaw.....	6,042	7,144	1,102	.....
Snoqualmie.....	13,566	23,399	9,833	.....
Stanislaus.....	14,697	17,953	3,256	.....
Tahoe.....	16,337	18,250	1,913	.....
Targhee.....	9,553	10,508	955	.....
Teton.....	4,401	4,992	591	.....
Tongass.....	15,224	20,395	5,171	.....
Tonto.....	7,685	8,085	400	.....
Trinity.....	19,484	22,408	2,924	.....
Tusayan.....	12,904	8,819	.....	4,085
Uinta.....	4,555	8,213	3,658	.....
Umatilla.....	6,532	7,960	1,398	.....
Umpqua.....	13,539	18,595	5,056	.....
Wallowa.....	9,617	13,549	3,932	.....
Wasatch.....	5,000	6,700	1,700	.....
Washington.....	7,642	8,005	363	.....
Weiser.....	6,493	7,343	850	.....
Wenaha.....	5,420	9,432	4,012	.....
Whitman.....	18,725	28,226	9,501	.....
Wichita.....	2,416	5,016	2,600	.....
Wyoming.....	5,089	7,817	2,728	.....
New forests.....	76,859	84,759	7,900	.....
Total.....	1,011,169	1,271,575	289,131	28,725
Net increase.....	.....	.....	260,406	.....

## National forests.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Forest supervisor.....per annum..	\$3,040.00	1	..
Forest supervisor.....do.....	2,700.00	1	..
Forest supervisors.....do.....	2,400.00	11	1 (pt. time)
Forest supervisors.....do.....	2,200.00	20	..
Forest supervisor.....do.....	2,040.00	..	1 (pt. time)
Forest supervisors.....do.....	2,000.00	53	2 (pt. time)
Forest supervisor.....do.....	1,980.00	..	1 (pt. time)
Forest supervisors.....do.....	1,920.00	..	1
Forest supervisors.....do.....	1,800.00	62	5 (pt. time)
Deputy forest supervisors.....do.....	1,800.00	5	..
Deputy forest supervisors.....do.....	1,700.00	10	..
Deputy forest supervisors.....do.....	1,600.00	30	..
Deputy forest supervisors.....do.....	1,500.00	29	..
Lumbermen.....do.....	1,900.00	1	2(1pt. time)





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>					
<i>National forests—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
<i>Salaries—Continued.</i>		<i>Number.</i>	<i>Number.</i>		
Lumberman..... per annum.	\$1,800.00	1	1 (pt. time)		
Lumberman..... do.	1,740.00	..	1 (pt. time)		
Lumberman..... do.	1,680.00	1	..		
Lumbermen..... do.	1,620.00	3	2 (1 pt. time)		
Lumbermen..... do.	1,600.00	1	1		
Lumbermen..... do.	1,500.00	6	5 (1 temp.)		
Lumbermen..... do.	1,400.00	..	2 (1 temp.)		
Lumberman..... do.	1,300.00	..	1		
Timber cruiser..... do.	1,740.00	..	1 (temp.)		
Engineer..... do.	2,220.00	1	..		
Engineer..... do.	1,800.00	1	1		
Topographer..... do.	1,800.00	..	1 (pt. time)		
Topographer..... do.	1,380.00	..	1 (temp.)		
Examiners..... do.	2,400.00	2 (1 pt. time)	1 (pt. time)		
Examiners..... do.	2,200.00	..	1 (pt. time)		
Examiners..... do.	2,040.00	1 (pt. time)	..		
Examiners..... do.	2,000.00	3 (1 pt. time)	1 (pt. time)		
Examiners..... do.	1,980.00	2 (pt. time)	..		
Examiners..... do.	1,800.00	17 (6 pt. time; 6 new)	9 (8 pt. time)		
Examiners..... do.	1,740.00	1	3 (pt. time)		
Examiners..... do.	1,700.00	4 (1 pt. time)	3 (2 pt. time)		
Examiners..... do.	1,680.00	8 (4 pt. time)	..		
Examiners..... do.	1,620.00	6 (1 pt. time)	7 (5 pt. time)		
Examiners..... do.	1,600.00	3 (1 pt. time)	13 (7 pt. time; 2 temp.)		
Examiner..... do.	1,560.00	1	..		
Examiners..... do.	1,500.00	15 (2 pt. time; 1 new)	19 (6 pt. time)		
Examiners..... do.	1,440.00	2 (1 pt. time)	2 (1 pt. time)		
Examiners..... do.	1,400.00	13 (1 pt. time; 1 temp.; 5 new)	8 (1 pt. time; 1 temp.)		
Examiners..... do.	1,380.00	2 (1 pt. time)	2 (pt. time)		
Examiners..... do.	1,300.00	5	4 (3 temp.)		
Examiners..... do.	1,260.00	4	3		
Examiner..... do.	1,200.00	1	..		
Examiners..... do.	1,100.00	..	2		
Assistants..... do.	1,800.00	2	..		
Assistant..... do.	1,700.00	..	1 (pt. time)		
Assistant..... do.	1,600.00	..	1 (pt. time)		
Assistants..... do.	1,500.00	2 (1 temp.; 1 new)	..		
Assistants..... do.	1,400.00	6 (new)	2 (1 pt. time)		
Assistants..... do.	1,200.00	15 (14 new)	1 (pt. time)		
Assistants..... do.	1,100.00	16 (2 pt. time; 1 new)	6 (4 pt. time)		
Assistant..... do.	1,020.00	..	1 (temp.)		
Assistants..... do.	1,000.00	32 (temp.)	..		
Scalers..... do.	1,600.00	2	1		
Scalers..... do.	1,500.00	1	2		
Scaler..... do.	1,440.00	1 (temp.)	1 (temp.)		
Scalers..... do.	1,400.00	8 (temp.)	7 (temp.)		
Scaler..... do.	1,380.00	1	1		
Scalers..... do.	1,300.00	5	6 (3 temp.)		
Scalers..... do.	1,200.00	18 (4 new)	13 (8 temp.)		
Scaler..... do.	1,140.00	..	1 (temp.)		
Scalers..... do.	1,100.00	13 (8 temp.; 5 new)	11 (9 temp.)		
Scalers..... do.	1,080.00	11 (10 temp.)	1 (temp.)		
Scalers..... do.	1,020.00	40 (temp.)	13 (8 temp.)		
Scaler..... do.	1,000.00	..	1 (temp.)		
Fire chiefs..... do.	1,800.00	8 (6 new)	1 (pt. time)		
Fire chief..... do.	1,680.00	1	1 (pt. time)		
Fire chiefs..... do.	1,620.00	1	2 (pt. time)		
Fire chiefs..... do.	1,500.00	5	2 (pt. time)		
Fire chiefs..... do.	1,400.00	4	1 (pt. time)		
Fire chiefs..... do.	1,300.00	5	1 (pt. time)		
Forest rangers..... do.	1,500.00	30	1 (temp.)		
Forest rangers..... do.	1,400.00	25	2 (temp.)		
Forest rangers..... do.	1,300.00	100	1 (pt. time)		
Forest ranger..... do.	1,260.00	..	1 (pt. time)		
Forest rangers..... do.	1,200.00	495	6 (2 pt. time; 4 temp.)		
Forest rangers..... do.	1,100.00	250	26 (1 pt. time; 24 temp.)		
Forest ranger..... do.	1,020.00	..	1 (pt. time)		
Forest rangers..... do.	1,000.00	..	32 (temp.)		
Forest guard..... do.	2,520.00	1 (temp.)	..		
Forest guards..... do.	1,800.00	2 (temp.)	3 (temp.)		
Forest guards..... do.	1,680.00	..	1 (temp.)		
Forest guards..... do.	1,660.00	..	2 (temp.)		
Forest guards..... do.	1,500.00	12 (temp.)	10 (temp.)		
Forest guards..... do.	1,440.00	..	7 (temp.)		
Forest guards..... do.	1,400.00	18 (temp.)	..		
Forest guard..... do.	1,320.00	..	1 (temp.)		
Forest guard..... do.	1,260.00	..	1 (temp.)		
Forest guards..... do.	1,200.00	198 (temp.)	1 (temp.)		
Forest guards..... do.	1,100.00	150 (temp.)	149 (temp.)		



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Forest Service—Continued.

## National Forests—Continued.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries—Continued.</b>		<i>Number.</i>	<i>Number.</i>
Forest guards..... per annum..	\$1,080.00	..	27 (temp.)
Forest guards..... do.....	1,020.00	..	51 (temp.)
Forest guards..... do.....	1,000.00	60	..
Clerk..... do.....	1,600.00	..	1 (pt. time)
Clerk..... do.....	1,400.00	1 (temp.)	..
Clerks..... do.....	1,300.00	..	2 (temp.)
Clerks..... do.....	1,200.00	2 (temp.)	9 (temp.)
Clerks..... do.....	1,100.00	9 (temp.)	9 (temp.)
Clerks..... do.....	1,080.00	..	3 (temp.)
Clerks..... do.....	1,020.00	1 (temp.)	2 (temp.)
Scalers, clerks, telephone operators and collaborators, \$960 to 12..... do.....	..	65 (6 temp.)	69 (55 temp.)
<b>Wages:</b>			
Miscellaneous and temporary labor—\$125 to \$60 per month.....	..	3,787	3,328
	..	5,731	3,932
<b>Salaries.....</b>		\$1,914,942.00	\$196,820.69
<b>Wages.....</b>		837,958.00	422,588.16
<b>Other objects of expenditure:</b>			
Traveling expenses.....	..	297,648.00	272,419.03
Equipment and material.....	..	205,426.00	145,775.08
Telephone and telegraph service.....	..	21,194.00	21,046.22
Miscellaneous items.....	..	243,489.00	216,302.94
<b>Total.....</b>		3,520,657.00	1,274,952.12

## General administration.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Associate forester..... per annum..	\$4,500.00	1	1
Assistant foresters..... do.....	4,500.00	1	..
Assistant foresters..... do.....	4,260.00	1	..
Assistant foresters..... do.....	4,000.00	2	2 (1 pt. time)
Assistant foresters..... do.....	3,780.00	1	..
Assistant foresters..... do.....	3,750.00	..	1
Assistant foresters..... do.....	3,500.00	..	1
District foresters..... do.....	4,000.00	2	..
District foresters..... do.....	3,600.00	4	5 (1 pt. time)
District foresters..... do.....	3,500.00	1	1
Assistant district foresters..... do.....	3,200.00	3	5 (1 pt. time)
Assistant district foresters..... do.....	3,120.00	1	..
Assistant district foresters..... do.....	3,000.00	14	11
Assistant district foresters..... do.....	2,900.00	..	1
Assistant district foresters..... do.....	2,800.00	1	2
Assistant district foresters..... do.....	2,700.00	2	3
Assistant district foresters..... do.....	2,580.00	1	..
Assistant district foresters..... do.....	2,520.00	1	..
Assistant district foresters..... do.....	2,500.00	..	1
Assistant district foresters..... do.....	2,400.00	2	2
Attorney..... do.....	3,250.00	1	1
Chief engineer..... do.....	4,500.00	1	..
Chief engineer..... do.....	4,000.00	..	1
Engineers..... do.....	3,500.00	..	2 (temp.)
Engineers..... do.....	3,000.00	5 (1 pt. time)	4 (1 pt. time)
Engineers..... do.....	2,820.00	1 (1 pt. time)	..
Engineers..... do.....	2,800.00	..	1 (temp.)
Engineers..... do.....	2,700.00	5 (4 pt. time)	2 (1 pt. time)
Engineers..... do.....	2,600.00	..	3 (1 pt. time)
Engineers..... do.....	2,400.00	4	3 (1 pt. time)
Engineers..... do.....	2,200.00	..	3 (2 pt. time)
Engineers..... do.....	2,160.00	1	..
Engineers..... do.....	2,100.00	1	1
Engineers..... do.....	2,000.00	..	2 (1 pt. time)
Engineers..... do.....	1,800.00	3 (1 pt. time)	2 (1 pt. time)
Inspectors..... do.....	3,600.00	2	..
Inspectors..... do.....	3,300.00	1	..
Inspectors..... do.....	3,200.00	4	3
Inspectors..... do.....	3,000.00	1	..
Inspectors..... do.....	2,800.00	1	..
Inspectors..... do.....	2,700.00	..	1
Inspectors..... do.....	2,520.00	1	..
Inspectors..... do.....	2,400.00	4	1
Inspectors..... do.....	2,250.00	..	1 (temp.)
Inspectors..... do.....	2,220.00	1 (pt. time)	..
Inspectors..... do.....	2,200.00	..	1
Inspectors..... do.....	2,100.00	..	1 (pt. time)
Inspectors..... do.....	2,000.00	..	1
Inspectors..... do.....	1,980.00	3	1 (pt. time)





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>					
<i>General Administration—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries—Continued.		Number.	Number.		
Inspectors.....per annum..	1,800.00	1	1		
Inspectors.....do.....	1,740.00	...	1 (pt. time)		
Inspectors.....do.....	1,700.00	...	1		
Inspectors.....do.....	1,620.00	1 (new)	...		
Chief of claims.....do.....	2,400.00	1	1		
Lumberman.....do.....	2,400.00	1	...		
Lumberman.....do.....	2,100.00	1	1 (parttime)		
Lumberman.....do.....	2,000.00	2	3 (1 pt.time)		
Lumberman.....do.....	1,920.00	1	1		
Lumberman.....do.....	1,800.00	1	2 (1 pt.time)		
Lumberman.....do.....	1,620.00	1	...		
Supervisors.....do.....	2,400.00	...	1		
Supervisors.....do.....	2,200.00	...	1 (pt. time)		
Supervisors.....do.....	2,040.00	...	1 (pt. time)		
Supervisors.....do.....	2,000.00	...	1		
Supervisors.....do.....	1,800.00	...	2 (pt. time)		
Examiner.....do.....	2,700.00	1	1		
Examiner.....do.....	2,520.00	1 (new)	...		
Examiner.....do.....	2,500.00	1	1		
Examiners.....do.....	2,400.00	4	3 (2 pt.time)		
Examiner.....do.....	2,340.00	1	...		
Examiners.....do.....	2,220.00	3	...		
Examiners.....do.....	2,200.00	1	3 (2 pt. time)		
Examiner.....do.....	2,160.00	1	1		
Examiners.....do.....	2,100.00	3 (pt. time)	3 (1 pt. time)		
Examiner.....do.....	2,040.00	...	1		
Examiners.....do.....	2,000.00	3 (1 pt.time)	7 (4 pt.time)		
Examiners.....do.....	1,980.00	2	2 (pt. time)		
Examiners.....do.....	1,920.00	2	1		
Examiners.....do.....	1,900.00	...	2 (1 pt.time)		
Examiners.....do.....	1,860.00	2	1		
Examiners.....do.....	1,800.00	10 (2 new)	10 (6 pt.time)		
Examiners.....do.....	1,740.00	...	3 (pt.time)		
Examiner.....do.....	1,700.00	...	1		
Examiner.....do.....	1,680.00	1	...		
Examiners.....do.....	1,620.00	1	...		
Examiners.....do.....	1,600.00	3	7 (3 pt.time)		
Examiner.....do.....	1,560.00	1	...		
Examiners.....do.....	1,500.00	1	3 (1 pt.time)		
Examiners.....do.....	1,440.00	...	3 (pt. time)		
Examiners.....do.....	1,400.00	2	2 (1 pt.time)		
Assistant.....do.....	2,500.00	...	1		
Assistant.....do.....	1,800.00	...	1 (pt. time)		
Assistant.....do.....	1,500.00	1 (pt.time)	1 (pt. time)		
Assistant.....do.....	1,400.00	1	...		
Assistant.....do.....	1,100.00	...	1 (temp.)		
Assistant.....do.....	1,080.00	...	1		
Auditor.....do.....	1,800.00	1 (pt. time)	...		
Timber estimator.....do.....	2,100.00	...	1 (pt. time)		
Draftsman.....do.....	1,380.00	...	1 (temp.)		
Draftsman.....do.....	1,200.00	1 (temp.)	1 (pt. time)		
Photographer.....do.....	1,800.00	...	1 (temp.)		
Photographer.....do.....	1,400.00	1 (temp.)	...		
Photostater.....do.....	1,200.00	...	1		
Translator.....do.....	1,400.00	1	...		
Clerk.....do.....	2,400.00	...	1		
Clerk.....do.....	1,800.00	1 (pt. time)	1 (pt. time)		
Clerk.....do.....	1,500.00	...	1 (temp.)		
Clerk.....do.....	1,400.00	1 (temp.)	2 (1 pt.time)		
Clerk.....do.....	1,300.00	...	1		
Clerk.....do.....	1,200.00	...	1 (temp.)		
Clerk.....do.....	1,100.00	1 (temp.)	2 (1 temp.)		
Blue printers.....do.....	1,200.00	2 (pt. time)	1		
Map mounter.....do.....	1,200.00	1	1		
Photostater, clerks, blue printer, telephone operator, watchmen, messengers, and collaborators—\$900 to \$12.....do.....		32 (21 temp.)	38 (27 temp.)		
Wages:					
Miscellaneous temporary labor—\$5 to \$2.50.....per diem..		15	94		
\$0.60 to \$0.30.....per hour..		...	173		
		191	469		
Salaries.....		\$337,358.00	\$289,105.57		
Wages.....		1,500.00	7,471.20		
Other objects of expenditure:					
Traveling expenses.....		106,255.00	87,868.10		
Equipment and materials.....		800.00	14,089.65		
Telephone and telegraph service.....		13,830.00	10,417.69		
Miscellaneous items.....		20,227.00	25,587.93		
Total.....		479,970.00	434,540.14		





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(240) For the selection, classification, and segregation of lands within the boundaries of national forests that may be opened to homestead settlement and entry under the homestead laws applicable to the national forests; for the examination and appraisal of lands in effecting exchanges authorized by law <i>and for the survey thereof by metes and bounds or otherwise by employees of the Forest Service under the direction of the Commissioner of the General Land Office</i> ; and for the survey and platting of certain lands, chiefly valuable for agriculture, now listed or to be listed within the national forests, under the Act of June 11, 1906 (Thirty-fourth Statutes, p. 233), and the Act of March 3, 1899 (Thirtieth Statutes, page 1095), as provided by the Act of March 4, 1913 ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1</i> ) -----	\$107,000.00	
Appropriation for 1914..... \$65,000 Appropriation for 1915..... 100,000 Appropriation for 1916..... 100,000 Appropriation for 1917..... 100,000 Appropriation for 1918..... 147,700 Appropriation for 1919..... 119,800 Appropriation for 1920..... 107,000	Estimate for 1915..... \$100,000 Estimate for 1916..... 100,000 Estimate for 1917..... 100,000 Estimate for 1918..... 78,400 Estimate for 1919..... 119,800 Estimate for 1920..... 107,000 Estimate for 1921..... 107,000	

NOTE.—The language of this paragraph has been amended by adding the following clause after the words "authorized by law," "and for the survey thereof by metes and bounds or otherwise by employees of the Forest Service under the direction of the Commissioner of the General Land Office." While authority is already given (Act of Aug. 10, 1912, 37 Stat., 269) to survey lands, under the direction of the General Land Office, which are to be opened to homestead entry, the department can not survey lands which are to be granted to the Government in authorized exchanges, and the Department of the Interior will not accept title to lands until the surveys have been executed under the direction of the General Land Office. The authorization to survey such lands will enable the Government to acquire such parts of legal subdivisions as are essentially forest in character when lands are tendered for exchange, and the agricultural portions can be excluded to remain in private ownership for agricultural development. The proposed change merely gives the same authority to the Forest Service in surveying lands offered for exchange that it now has in surveying homesteads on the national forests.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Engineer.....per annum..	\$2,002.00	1	1 (pt. time)
Engineers.....do.....	1,800.00	1 (pt. time)	4 (pt. time)
Examiner.....do.....	2,400.00	..	1 (pt. time)
Examiners.....do.....	2,343.00	..	2 (pt. time)
Examiners.....do.....	2,220.00	2	..
Examiners.....do.....	2,000.00	1	3
Examiner.....do.....	1,980.00	..	1 (pt. time)
Examiner.....do.....	1,920.00	1	..
Examiners.....do.....	1,900.00	1	1 (pt. time)
Examiners.....do.....	1,800.00	4	4
Examiners.....do.....	1,700.00	1	2
Examiners.....do.....	1,620.00	3	1
Examiner.....do.....	1,600.00	1	1
Examiners.....do.....	1,440.00	..	3
Surveyor.....do.....	1,900.00	1	1
Surveyors.....do.....	1,800.00	1 (pt. time)	2
Surveyors.....do.....	1,600.00	..	1
Surveyors.....do.....	1,500.00	3 (2 temp.)	5 (1 pt. time)
Surveyor.....do.....	1,440.00	..	1 (temp.)
Surveyors.....do.....	1,400.00	..	1 (pt. time)
Surveyor's assistants.....do.....	1,200.00	3	..
Surveyor's assistants.....do.....	1,080.00	..	2
Draftsmen.....do.....	1,500.00	1	4 (pt. time)
Draftsman.....do.....	1,440.00	..	1 (pt. time)
Draftsmen.....do.....	1,400.00	1 (temp.)	1 (temp.)
Draftsmen.....do.....	1,320.00	..	1 (temp.)
Draftsmen.....do.....	1,200.00	..	3
Assistant.....do.....	1,500.00	1	..





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Forest Service—Continued.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries—Continued.</b>		<i>Numbers.</i>	<i>Numbers.</i>
Assistants.....per annum..	\$1,100.00	1	2 (pt. time)
Clerks.....do....	1,200.00	1 (pt. time)	1 (pt. time)
Clerk.....do....	1,080.00	1	1
Clerk.....do....	1,020.00	1 (temp.)	1 (pt. time)
Clerks.....do....	900.00	3 (temp.)	1 (pt. time)
<b>Wages:</b>			
Temporary laborers—			
\$3.50 to \$2.50.....per diem..		54	429
		86	482
Salaries.....		\$40,470.00	\$40,927.60
Wages.....		28,449.00	28,333.81
<b>Other objects of expenditure:</b>			
Traveling expenses.....		21,366.00	21,438.49
Equipment and material.....		10,705.00	11,948.11
Miscellaneous items.....		6,010.00	3,326.89
<b>Total.....</b>		<b>107,000.00</b>	<b>105,974.90</b>

- (241) **For fighting and preventing forest fires and for other unforeseen emergencies, \$150,000.**

NOTE.—This item is transferred to the "Miscellaneous" section and included in the item for fighting and preventing forest fires, \$1,000,000. (See note under item 2 of "Miscellaneous" section.)

- (242) *For preventing and combating infestations of insects injurious to forest trees on and near the national forests, independently or in cooperation with other branches of the Federal Government, with States, counties, municipalities, or with private owners (submitted).....* **\$25,000.00**

NOTE—This is a new item. It has been attempted heretofore to combat insect attacks in the forests from funds available for forest protection. The work of fighting insects has to be done largely in the early spring; consequently the funds available depend on the balance remaining from the preceding fire season. Inasmuch as the moneys appropriated for fire protection are all used for that purpose except in unusually wet years, it has been impossible to carry on systematic insect control work. As a result there has been a great loss of Government timber from inability to combat insect attacks as they occur on or near the national forests. The loss has been estimated at \$235,000 per annum in California alone. Insect attacks arise suddenly, and it is essential that the Forest Service be prepared to combat them whenever the situation becomes threatening. There are methods at hand for successful insect control, but lack of funds has prevented the inauguration of a systematic campaign. The importance of such work has been emphasized by prominent lumbermen in the lumber trade papers, and the timber owners are alive to the situation and are expending funds for this purpose on their own lands. They naturally look to the Forest Service for guidance and cooperation, especially in combating insect attacks on Government timberlands in the national forests.

Employees.	Rate.	Estimated, 1921.	Expended, 1919. <sup>1</sup>
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Examiners.....per annum..	\$1,800.00	2	.....
Examiners.....do....	1,600.00	2	.....
<b>Wages:</b>			
Miscellaneous temporary laborers, per month..	75.00	90	.....
		94	.....
Salaries.....		\$6,960.00	.....
Wages.....		10,000.00	.....
<b>Other objects of expenditure:</b>			
Traveling expenses.....		1,100.00	.....
Equipment and material.....		4,940.00	.....
Miscellaneous items.....		2,000.00	.....
<b>Total.....</b>		<b>25,060.00</b>	.....

<sup>1</sup> No appropriation for fiscal year 1919.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

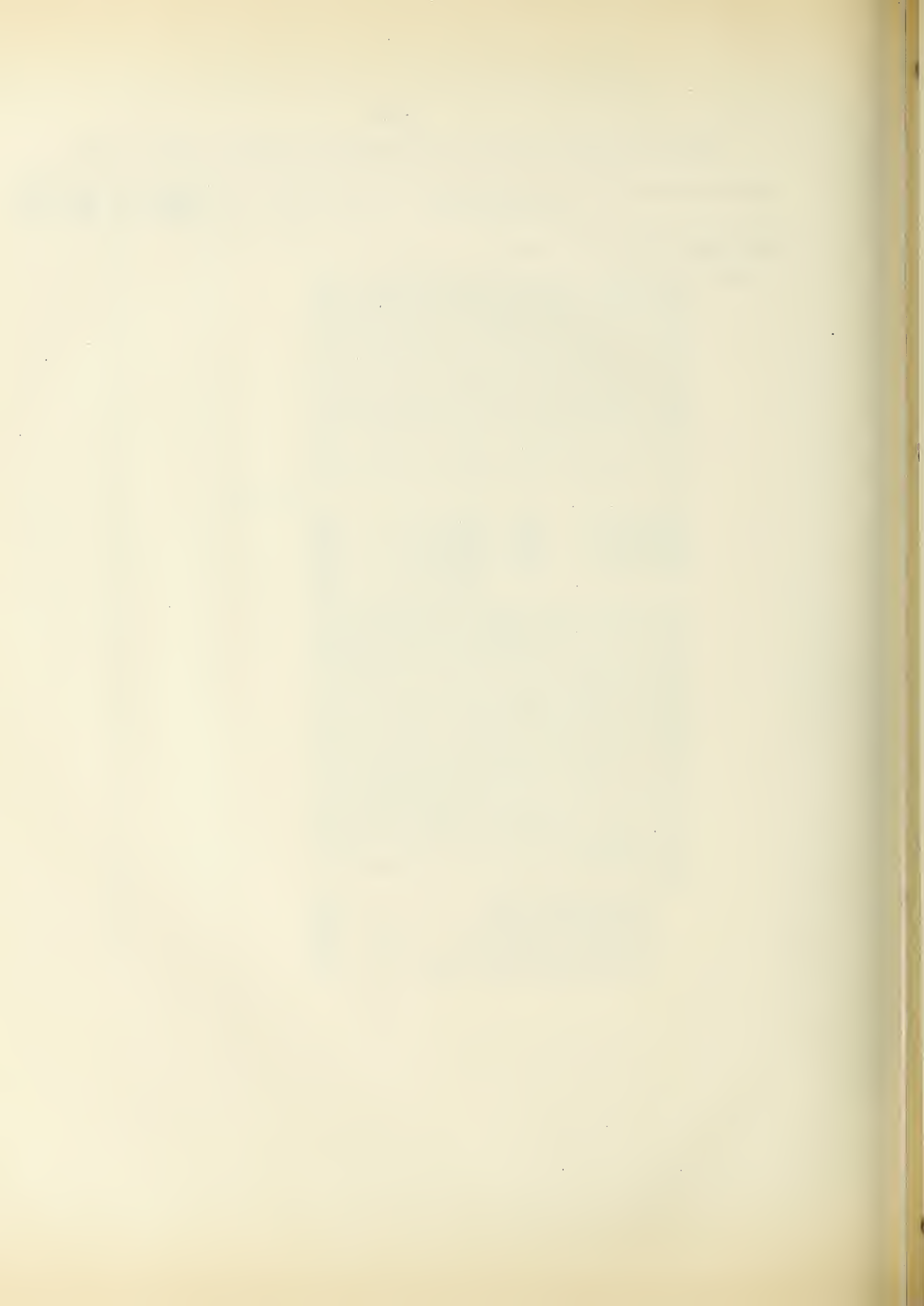
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.	
<i>General Expenses, Forest Service—Continued.</i>			
(243) For the purchase and maintenance of necessary field, office, and laboratory supplies, instruments, and equipments <b>[\$161,100]</b> ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1</i> ) -----	\$173,600.00		
Appropriation for 1911..... \$221,040	Estimate for 1912..... \$198,080		
Appropriation for 1912..... 198,080	Estimate for 1913..... 155,000		
Appropriation for 1913..... 155,000	Estimate for 1914..... 168,000		
Appropriation for 1914..... 160,000	Estimate for 1915..... 160,000		
Appropriation for 1915..... 160,000	Estimate for 1916..... 158,000		
Appropriation for 1916..... 152,000	Estimate for 1917..... 150,400		
Appropriation for 1917..... 150,400	Estimate for 1918..... 161,100		
Appropriation for 1918..... 161,100	Estimate for 1919..... 161,100		
Appropriation for 1919..... 161,100	Estimate for 1920..... 161,100		
Appropriation for 1920..... 161,100	Estimate for 1921..... 173,600		
<p>NOTE.—There is an increase in this item of \$12,500, which amount is required to meet the enormous advance in the cost of many lines of supplies and equipment. The average increase in the cost of stationery and office supplies, one of the largest items purchased from this fund, exceeds 80 per cent; envelopes alone have advanced over 100 per cent. Perhaps the greatest increase in cost has been in chemicals necessary in laboratory work, which in some instances have advanced 1,000 per cent. One of the most important items, and one in which costs have advanced materially, is that of labor involved in the repair and maintenance of equipment. On May 27, 1918, the Forest Service was authorized to furnish, and later furnished, to the War Department 37 transits, 25 planetables, 112 compasses, 66 planimeters, and 18 aneroid barometers. Treasury settlement was made in the sum of \$15,058.94, but this money was credited to appropriations which had lapsed and was therefore unavailable. In June, 1919, the Forest Service was able to buy from the Engineer Supply Depot at advantageous prices a sufficient number of transits and planetables, for which Treasury settlement of \$8,184.50 was made. But it was not feasible then to buy compasses, aneroids, and planimeters. These instruments are essential to field and drafting work. At the present advanced prices it will probably cost upward of \$4,000 to restore the stock, and such expense must be met from this appropriation.</p>			
Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Property assistant.....per annum..	\$2,500.00	1	..
Property auditor.....do.....	2,120.00	1	1
Clerk.....do.....	1,600.00	..	1 (temp.)
Wages:			
Miscellaneous temporary labor—			
\$3.50 to \$2.50.....per diem.....		..	7
\$0.50 to \$0.25.....per hour.....		..	136
		2	145
Salaries.....		\$4,620.00	\$2,168.88
Wages.....			5,018.28
Other objects of expenditure:			
Stationery.....		69,418.00	52,184.60
Traveling expenses.....		2,000.00	1,209.05
Equipment and material.....		78,391.00	48,331.24
Miscellaneous items.....		19,171.00	12,461.08
Total.....		173,600.00	121,373.13





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
(244) For investigations of methods for wood distillation and for the preservative treatment of timber, for timber testing, and the testing of such woods as may require test to ascertain if they be suitable for making paper, for investigations and tests within the United States of foreign woods of commercial importance to industries in the United States, and for other investigations and experiments to promote economy in the use of forest products, and for commercial demonstrations of improved methods or processes, in cooperation with individuals and companies <b>["\$173,260"]</b> ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1</i> ) -----	\$348,260.00	
Appropriation for 1912..... \$177,040 Appropriation for 1913..... 170,000 Appropriation for 1914..... 140,000 Appropriation for 1915..... 140,000 Appropriation for 1916..... 140,000 Appropriation for 1917..... 135,200 Appropriation for 1918..... 155,600 Appropriation for 1919..... 173,260 Appropriation for 1920..... 173,260	Estimate for 1912..... \$177,040 Estimate for 1913..... 150,000 Estimate for 1914..... 170,000 Estimate for 1915..... 140,000 Estimate for 1916..... 140,000 Estimate for 1917..... 135,200 Estimate for 1918..... 178,100 Estimate for 1919..... 173,260 Estimate for 1920..... 208,260 Estimate for 1921..... 348,260	
NOTE.—There is an increase in the above item of \$175,000, of which amount \$167,000 is needed for extending the industrial researches of the Forest Products Laboratory and \$8,000 for forest products field studies in the West. On account of prevailing conditions there is a peculiarly urgent need for better knowledge regarding the most economical methods of production and use of forest products, and the present opportunity is particularly favorable for securing the application of such knowledge in the processes of industry.		
During the war funds made available by the War and Navy Departments enabled the Forest Service to gather a great volume of new information, much of which will have far-reaching importance for peace-time industries when its proper application has been studied and commercially demonstrated. There is in the aggregate an enormous unnecessary waste and loss of efficiency through nearly every phase of wood manufacture and utilization. Every dollar of this loss is an added cost in production and every foot of wood waste an additional drain on the resources of the forests. It is beyond doubt that economies running into many millions of dollars a year are easily realizable through application of the results already obtained by forest-product researches and the further prosecution of investigations now under way. To curtail the work and delay the betterment of practice which, with proper financial support, can plainly be brought about would be not merely a serious loss, but an appalling waste.		
The additional funds, if granted, will be applied to the following projects:		
Madison Forest Products Laboratory: Mechanical properties of wood..... \$41,760 Kiln drying and wood structures..... 23,500 Containers and shipping boxes..... 18,740 Plywood, glues, and laminated stock..... 21,400 By-products and chemical studies..... 43,000 Technical studies of industries..... 18,600 Studies of forest products in field districts..... 8,000		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Director..... per annum..	\$3,780.00	1	...		
Director..... do.....	3,600.00	...	1 (pt.time)		
Assistant director..... do.....	3,540.00	1	...		
Assistant director..... do.....	3,200.00	...	1 (pt.time)		
Superintendent..... do.....	3,000.00	...	1 (pt.time)		
Fiscal agent..... do.....	2,120.00	...	1 (pt.time)		
Engineers..... do.....	3,500.00	1	2 (pt.time)		
Engineers..... do.....	3,480.00	2	...		
Engineer..... do.....	3,200.00	...	1 (pt.time)		
Engineers..... do.....	3,000.00	2	4 (pt.time)		
Engineer..... do.....	2,820.00	1	...		
Engineers..... do.....	2,700.00	1	2 (pt.time)		
Engineer..... do.....	2,600.00	1	1 (pt.time)		
Engineer..... do.....	2,580.00	1	...		
Engineer..... do.....	2,500.00	1	1 (pt.time)		
Engineers..... do.....	2,400.00	8 (2 new)	6 (pt.time)		
Engineers..... do.....	2,300.00	2	2 (pt.time)		
Engineers..... do.....	2,220.00	2 (new)	...		
Engineers..... do.....	2,200.00	...	6 (pt.time)		
Engineer..... do.....	2,160.00	1	...		
Engineers..... do.....	2,100.00	4 (3 new)	2 (pt.time)		
Engineer..... do.....	2,020.00	...	1 (pt.time)		
Engineers..... do.....	2,000.00	1	2 (pt.time)		
Engineers..... do.....	1,860.00	2 (new)	...		
Engineers..... do.....	1,800.00	7	9 (pt.time)		
Assistant engineers..... do.....	1,700.00	...	5 (pt.time)		
Assistant engineers..... do.....	1,620.00	6 (new)	...		
Assistant engineers..... do.....	1,600.00	1	4 (pt.time)		
Assistant engineers..... do.....	1,500.00	6	6 (pt.time)		
Assistant engineer..... do.....	1,300.00	...	1 (pt.time)		
Assistant engineers..... do.....	1,200.00	...	6 (pt.time)		
Physicist..... do.....	3,300.00	1	...		
Physicist..... do.....	3,000.00	...	1 (pt.time)		
Chemist..... do.....	3,480.00	1	...		
Chemist..... do.....	3,000.00	1	1 (pt.time)		
Chemist..... do.....	2,880.00	1	...		
Chemists..... do.....	2,600.00	3	3 (pt.time)		
Chemist..... do.....	2,500.00	1	1 (pt.time)		
Chemists..... do.....	2,400.00	2 (new)	...		
Chemist..... do.....	2,100.00	1 (new)	...		
Chemists..... do.....	1,800.00	5	6 (pt.time)		
Assistant chemist..... do.....	1,680.00	1	1 (pt.time)		
Assistant chemist..... do.....	1,620.00	1	...		
Assistant chemist..... do.....	1,600.00	...	1 (pt.time)		
Assistant chemists..... do.....	1,500.00	2	10 (pt.time)		
Assistant chemist..... do.....	1,400.00	...	1 (pt.time)		
Assistant chemists..... do.....	1,200.00	...	2 (pt.time)		
Microscopist..... do.....	1,900.00	1	1 (pt.time)		
Xylogonomist..... do.....	1,000.00	1	1 (pt.time)		
Wood technologist..... do.....	2,200.00	...	2 (pt.time)		
Wood technologist..... do.....	2,000.00	...	2 (pt.time)		
Wood identification specialist..... do.....	1,980.00	1	...		
Wood identification specialist..... do.....	1,800.00	...	1 (pt.time)		
Dry kiln specialist..... do.....	1,800.00	1	1 (pt.time)		
Aircraft specialist..... do.....	3,600.00	...	1 (pt.time)		
Wood utilization specialist..... do.....	2,800.00	...	1 (pt.time)		
Lumbering specialist..... do.....	2,700.00	...	1 (pt.time)		
Architectural specialist..... do.....	1,980.00	1	...		
Architectural specialists..... do.....	1,800.00	...	2 (pt.time)		
Architectural specialist..... do.....	1,500.00	...	1 (pt.time)		
Statistician..... do.....	2,700.00	1	1		
Statistician..... do.....	1,800.00	1	1		
Statistician..... do.....	1,700.00	1	1		
Statistician..... do.....	1,680.00	1	1 (pt.time)		
Scientific assistant..... do.....	1,800.00	1	1 (pt.time)		
Administrative assistant..... do.....	2,700.00	...	1 (pt.time)		
Section chief..... do.....	3,200.00	1 (new)	...		
Examiner..... do.....	3,500.00	...	1 (pt.time)		
Examiner..... do.....	2,500.00	1 (new)	...		
Examiners..... do.....	2,400.00	3 (1 new)	2 (pt.time)		
Examiner..... do.....	2,200.00	...	1 (pt.time)		
Examiner..... do.....	2,100.00	...	1 (pt.time)		
Examiners..... do.....	2,000.00	...	2 (pt.time)		
Examiner..... do.....	1,860.00	1	...		
Examiners..... do.....	1,800.00	4	5 (pt.time)		
Examiners..... do.....	1,620.00	2	...		
Examiner..... do.....	1,600.00	...	1 (pt.time)		
Examiners..... do.....	1,500.00	2	3 (pt.time)		
Examiner..... do.....	1,400.00	...	1 (pt.time)		
Inspector..... do.....	2,400.00	...	1 (pt.time)		
Draftsman..... do.....	1,400.00	...	1 (pt.time)		
Draftsmen..... do.....	1,200.00	...	2 (pt.time)		
Clerk..... do.....	2,000.00	1 (temp.)	1 (pt.time)		
Clerk..... do.....	1,800.00	...	1 (pt.time)		
Clerks..... do.....	1,600.00	...	2 (pt.time)		
Clerks..... do.....	1,320.00	1 (temp.)	...		
Clerks..... do.....	1,200.00	4 (temp.)	3 (pt.time)		
Clerks..... do.....	1,100.00	2 (temp.)	1 (pt.time)		
Clerks..... do.....	1,020.00	...	1 (pt.time)		
Clerks..... do.....	1,000.00	6 (new)	...		
Laboratory aids..... do.....	1,500.00	6 (4 new)	2 (pt.time)		
Laboratory aids..... do.....	1,275.00	1	...		
Laboratory aids..... do.....	1,200.00	11 (7 new)	4 (pt.time)		





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																												
<i>General Expenses, Forest Service—Continued.</i>																																																																																																														
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><b>Salaries—Continued.</b></td></tr><tr><td>Laboratory aid.....per annum..</td><td>\$1,100.00</td><td><i>Number.</i> 1</td><td><i>Number.</i> 1 (pt. time)</td></tr><tr><td>Foreman.....do.....</td><td>1,500.00</td><td>...</td><td>1 (pt. time)</td></tr><tr><td>Machinist.....do.....</td><td>1,500.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Machinist.....do.....</td><td>1,200.00</td><td>1 (new)</td><td>...</td></tr><tr><td>Paper maker.....do.....</td><td>1,330.00</td><td>1</td><td>...</td></tr><tr><td>Paper maker.....do.....</td><td>1,200.00</td><td>1 (new)</td><td>...</td></tr><tr><td>Paper maker.....do.....</td><td>1,200.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Paper maker.....do.....</td><td>1,100.00</td><td>...</td><td>2 (pt. time)</td></tr><tr><td>Photographers.....do.....</td><td>1,030.00</td><td>...</td><td>2 (pt. time)</td></tr><tr><td>Clerks, proofreader, laboratory aids and helpers, watchmen, messengers, and collaborator, \$900 to \$100.....do.....</td><td></td><td>18 (4 new)</td><td>138 (137 pt. time)</td></tr><tr><td colspan="4"><b>Wages:</b></td></tr><tr><td>Carpenter.....do.....</td><td>1,200.00</td><td>1 (new)</td><td>...</td></tr><tr><td>Carpenters.....do.....</td><td>1,200.00</td><td>2 (1 new)</td><td>1 (pt. time)</td></tr><tr><td>Carpenters.....do.....</td><td>1,000.00</td><td>...</td><td>15 (pt. time)</td></tr><tr><td>Laborers, \$900 to \$720.....do.....</td><td></td><td>4 (new)</td><td>24 (pt. time)</td></tr><tr><td>Miscellaneous temporary labor— \$8 to \$2.....per diem.....</td><td></td><td>41</td><td>35</td></tr><tr><td></td><td></td><td>201</td><td>417</td></tr><tr><td>Salaries.....</td><td></td><td>\$269,635.00</td><td>\$70,580.82</td></tr><tr><td>Wages.....</td><td></td><td>8,500.00</td><td>8,143.47</td></tr><tr><td colspan="4"><b>Other objects of expenditure:</b></td></tr><tr><td>Traveling expenses.....</td><td></td><td>27,150.00</td><td>20,304.54</td></tr><tr><td>Equipment and material.....</td><td></td><td>33,505.00</td><td>43,015.63</td></tr><tr><td>Telephone and telegraph service.....</td><td></td><td>740.00</td><td>962.30</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>8,670.00</td><td>19,105.69</td></tr><tr><td>Total.....</td><td></td><td>348,260.00</td><td>162,112.45</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	<b>Salaries—Continued.</b>				Laboratory aid.....per annum..	\$1,100.00	<i>Number.</i> 1	<i>Number.</i> 1 (pt. time)	Foreman.....do.....	1,500.00	...	1 (pt. time)	Machinist.....do.....	1,500.00	1	1 (pt. time)	Machinist.....do.....	1,200.00	1 (new)	...	Paper maker.....do.....	1,330.00	1	...	Paper maker.....do.....	1,200.00	1 (new)	...	Paper maker.....do.....	1,200.00	1	1 (pt. time)	Paper maker.....do.....	1,100.00	...	2 (pt. time)	Photographers.....do.....	1,030.00	...	2 (pt. time)	Clerks, proofreader, laboratory aids and helpers, watchmen, messengers, and collaborator, \$900 to \$100.....do.....		18 (4 new)	138 (137 pt. time)	<b>Wages:</b>				Carpenter.....do.....	1,200.00	1 (new)	...	Carpenters.....do.....	1,200.00	2 (1 new)	1 (pt. time)	Carpenters.....do.....	1,000.00	...	15 (pt. time)	Laborers, \$900 to \$720.....do.....		4 (new)	24 (pt. time)	Miscellaneous temporary labor— \$8 to \$2.....per diem.....		41	35			201	417	Salaries.....		\$269,635.00	\$70,580.82	Wages.....		8,500.00	8,143.47	<b>Other objects of expenditure:</b>				Traveling expenses.....		27,150.00	20,304.54	Equipment and material.....		33,505.00	43,015.63	Telephone and telegraph service.....		740.00	962.30	Miscellaneous items.....		8,670.00	19,105.69	Total.....		348,260.00	162,112.45		
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Total.....		348,260.00	162,112.45																																																																																																											

NOTE.—During the fiscal year 1919 most of the employees at the Forest Products Laboratory were paid from funds which the War and Navy Departments allotted to the Forest Service for use in testing and developing aircraft materials, packing boxes and crates, and for conducting other investigations—\$260,626.33 from the War Department and \$118,000 from the Navy Department.

- (245) For experiments and investigations of range conditions within national forests or elsewhere on the public range, and of methods for improving the range by reseeding, regulation of grazing, and other means [ \$35,000 ] (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247–252, sec. 1) ----- \$60,000.00

Appropriation for 1911.....	\$11,820	Estimate for 1912.....	\$18,420
Appropriation for 1912.....	18,420	Estimate for 1913.....	18,420
Appropriation for 1913.....	20,180	Estimate for 1914.....	25,820
Appropriation for 1914.....	25,000	Estimate for 1915.....	25,000
Appropriation for 1915.....	25,000	Estimate for 1916.....	25,000
Appropriation for 1916.....	30,000	Estimate for 1917.....	30,000
Appropriation for 1917.....	30,000	Estimate for 1918.....	35,000
Appropriation for 1918.....	35,000	Estimate for 1919.....	35,000
Appropriation for 1919.....	35,000	Estimate for 1920.....	35,000
Appropriation for 1920.....	35,000	Estimate for 1921.....	60,000

NOTE.—There is an increase in the above item of \$25,000. The object of these investigations is to find out how the national-forest ranges can be made more productive and utilized more efficiently. The demand for grazing privileges from small farmers, ranchers, and homesteaders grows steadily and rapidly. The result has been to develop many new difficulties and problems, which urgently demand an increased appropriation for their solution. This fund has been increased only \$10,000 since 1914. The increase now asked for is imperative if the ranges are to be handled in the best interest of the public, without impairment of productivity on the one hand or loss of full use on the other, through the working out of the most intensive and scientific methods of management.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Forest Service—Continued.*

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Grazing inspector.....per annum..	\$3,600.00	1	..
Grazing inspector.....do.....	3,200.00	..	1
Grazing inspector.....do.....	2,220.00	1 (pt. time)	..
Grazing inspector.....do.....	2,100.00	..	1 (pt. time)
Plant ecologist.....do.....	2,940.00	1	..
Plant ecologist.....do.....	2,500.00	..	1
Plant ecologist.....do.....	1,800.00	1	1
Botanist.....do.....	1,800.00	1 (pt. time)	1
Examiner.....do.....	2,220.00	1	..
Examiners.....do.....	2,100.00	2 (pt. time)	..
Examiners.....do.....	2,000.00	2	1 (pt. time)
Examiners.....do.....	1,800.00	6 (5 new)	3 (1 pt. time)
Examiner.....do.....	1,740.00	..	1 (pt. time)
Examiners.....do.....	1,600.00	..	2
Examiners.....do.....	1,500.00	2 (new)	..
Examiner.....do.....	1,380.00	1	1
Assistant.....do.....	1,320.00	1 (new)	..
Assistants.....do.....	1,200.00	11 (temp.)	1 (temp.)
Assistants.....do.....	1,100.00	..	11 (temp.)
Ranger.....do.....	1,100.00	..	1 (pt. time)
Plant mounter.....do.....	900.00	1	1
Wages:			
Miscellaneous temporary labor—			
\$4.50 to \$2.....per diem.....		13	29
\$0.40 to \$0.30.....per hour.....		..	21
		45	77
Salaries.....		\$41,520.00	\$20,696.73
Wages.....		1,980.00	4,069.29
Other objects of expenditure:			
Traveling expenses.....		11,543.00	7,188.58
Equipment and material.....		3,517.00	2,014.72
Telephone and telegraph service.....		10.00	7.20
Miscellaneous items.....		1,430.00	399.20
Total.....		60,000.00	34,375.72

- (246) For the purchase of tree seed, cones, and nursery stock, for seeding and tree planting within national forests, and for experiments and investigations necessary for such seeding and tree planting, \$145,640 [ *Provided*, That of this sum the Secretary of Agriculture is authorized to use so much as may be necessary, but not to exceed \$200, to acquire by purchase land now used as a forest nursery site for the Michigan National Forest ] (*acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1*) ..... \$145,640.00

Appropriation for 1911.....	\$166,640	Estimate for 1912.....	\$166,640
Appropriation for 1912.....	166,600	Estimate for 1913.....	150,000
Appropriation for 1913.....	165,640	Estimate for 1914.....	165,640
Appropriation for 1914.....	165,640	Estimate for 1915.....	165,640
Appropriation for 1915.....	165,640	Estimate for 1916.....	165,640
Appropriation for 1916.....	165,640	Estimate for 1917.....	165,640
Appropriation for 1917.....	165,640	Estimate for 1918.....	165,640
Appropriation for 1918.....	165,640	Estimate for 1919.....	145,640
Appropriation for 1919.....	145,640	Estimate for 1920.....	145,640
Appropriation for 1920.....	145,640	Estimate for 1921.....	145,640

NOTE.—The proviso authorizing the purchase of land for a forest nursery site for the Michigan National Forest has been omitted, as the site will be purchased during the fiscal year 1920.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, an estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Examiner.....per annum..	\$2,600.00	1	1 (pt. time)		
Examiner.....do.....	2,460.00	1	1		
Examiner.....do.....	2,340.00	1	1		
Examiner.....do.....	2,100.00	1	1		
Examiner.....do.....	2,040.00	1	1		
Examiners.....do.....	2,000.00	1	2 (pt. time)		
Examiner.....do.....	1,920.00	1	1		
Examiner.....do.....	1,860.00	1 (pt. time)	1		
Examiners.....do.....	1,800.00	2	2 (1 pt. time)		
Examiner.....do.....	1,740.00	1	1		
Examiner.....do.....	1,700.00	1	1		
Examiner.....do.....	1,680.00	1	1		
Examiner.....do.....	1,600.00	1	1 (pt. time)		
Examiner.....do.....	1,500.00	1	1		
Examiners.....do.....	1,440.00	2 (1 pt. time)	2 (1 pt. time)		
Examiners.....do.....	1,400.00	2 (1 pt. time)	3 (pt. time)		
Examiner.....do.....	1,320.00	1 (pt. time)	1 (pt. time)		
Examiner.....do.....	1,300.00	1 (pt. time)	1 (pt. time)		
Assistants.....do.....	1,500.00	2	2		
Assistant.....do.....	1,380.00	1	1		
Assistant.....do.....	1,300.00	1	1		
Assistants.....do.....	1,100.00	4 (temp.)	1 (temp.)		
Ranger.....do.....	1,100.00	1	2 (1 temp.)		
Wages:					
Laborer.....do.....	660.00	1	1		
Miscellaneous temporary labor—\$100 to \$60.....per month..		1,139	1,581		
		1,163	1,605		
Salaries.....		\$29,280.00	\$25,861.40		
Wages.....		71,890.00	77,253.76		
Other objects of expenditure:					
Traveling expenses.....		15,837.00	6,625.37		
Equipment and material.....		24,278.00	21,841.84		
Telephone and telegraph service.....		140.00	98.67		
Miscellaneous items.....		4,215.00	7,939.65		
Total.....		145,640.00	139,620.69		

- (247) For silvicultural, dendrological, and other experiments and investigations independently or in cooperation with other branches of the Federal Government, with States and with individuals, to determine the best methods for the conservative management of forests and forest lands [**\$78,728**] (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1) ..... **\$153,728.00**

Appropriation for 1911.....	\$108,010	Estimate for 1912.....	\$84,528
Appropriation for 1912.....	84,528	Estimate for 1913.....	83,728
Appropriation for 1913.....	83,728	Estimate for 1914.....	83,728
Appropriation for 1914.....	83,728	Estimate for 1915.....	83,728
Appropriation for 1915.....	83,728	Estimate for 1916.....	83,728
Appropriation for 1916.....	83,728	Estimate for 1917.....	78,728
Appropriation for 1917.....	78,728	Estimate for 1918.....	83,728
Appropriation for 1918.....	78,728	Estimate for 1919.....	78,728
Appropriation for 1919.....	78,728	Estimate for 1920.....	103,728
Appropriation for 1920.....	78,728	Estimate for 1921.....	153,728

NOTE.—An increase in this item of \$75,000 is requested for the purpose of meeting the very serious situation which confronts the country in consequence of the fact that the great bulk of its timber supplies is in private hands, that the supplies are rapidly diminishing, that the public welfare is seriously jeopardized by this condition, and that the remedy must be found chiefly in the early and widespread introduction of the practice of forestry on private lands. Specifically, the additional sum, if granted, will be used for the following purposes:

(a) \$25,000 for general forest investigations, the objects of which are to secure data regarding the extent of existing supplies of timber available for the industries which are facing serious shortage, to determine by what means this situation may be relieved, and to investigate the many economic problems connected with the manufacture of lumber and other wood products, requirements, and outputs, domestic and export markets, etc.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Forest Service—Continued.

(b) \$25,000 for experimental work at the forest experiment stations. To ascertain the best methods of reproducing, growing, and protecting forests intensive studies are required which can best be conducted at forest experiment stations where the effects of a particular set of conditions or method of treatment can be carefully observed and accurately measured through a term of years. Only through experiments of this character can the practice of forestry be highly developed. The experimental work along these lines already provided for is altogether insufficient to meet the needs of the present and the immediate future.

(c) \$25 000 for cooperation with States and individuals with a view to secure the actual application of proper forest practices on private lands. It is at present impossible to meet the opportunities presented by requests for such cooperation. Work of this kind is of urgent importance.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Chief, forest investigations... per annum...	\$3,500.00	1	1
Assistant chief, forest investigations... do...	3,200.00	1	1 (pt. time)
Chief, State cooperation... do...	3,000.00	1 (pt. time)	1 (pt. time)
Dendrologist... do...	3,300.00	1	..
Dendrologist... do...	3,000.00	..	1
Forest economist... do...	3,200.00	1 (new)	..
Extension specialist... do...	2,750.00	..	1 (pt. time)
Silviculturists... do...	3,000.00	4 (new)	..
Silviculturist... do...	2,880.00	1	..
Engineer... do...	3,180.00	1	..
Engineer... do...	3,000.00	..	1
Engineer... do...	2,200.00	..	1 (pt. time)
Examiners... do...	3,000.00	2 (new)	1 (temp.)
Examiner... do...	2,700.00	1 (pt. time)	1 (pt. time)
Examiners... do...	2,600.00	1	3 (temp.)
Examiners... do...	2,500.00	6 (new)	2 (temp.)
Examiners... do...	2,460.00	2	..
Examiners... do...	2,400.00	1	2 (temp.)
Examiners... do...	2,340.00	..	2
Examiners... do...	2,220.00	2	..
Examiner... do...	2,040.00	..	1
Examiners... do...	2,000.00	6 (new)	1 (pt. time)
Examiners... do...	1,980.00	2	2
Examiner... do...	1,900.00	1	1 (pt. time)
Examiners... do...	1,860.00	2 (1 pt. time)	..
Examiners... do...	1,800.00	2 (1 new)	2 (1 temp.)
Examiner... do...	1,740.00	..	1
Examiner... do...	1,700.00	1 (new)	1
Examiners... do...	1,680.00	2	2 (pt. time)
Examiners... do...	1,500.00	3 (2 new)	1
Examiners... do...	1,400.00	2	1 (pt. time)
Examiner... do...	1,380.00	1	..
Examiner... do...	1,320.00	1 (pt. time)	1 (pt. time)
Examiner... do...	1,300.00	1 (pt. time)	1 (pt. time)
Assistant... do...	1,600.00	1	1
Assistants... do...	1,100.00	1	2 (1 pt. time)
Assistants... do...	1,020.00	2 (temp.)	1 (temp.)
Assistants... do...	900.00	2 (temp.)	1 (temp.)
Clerks... do...	1,100.00	5 (temp.)	..
Wages:			
Miscellaneous temporary labor—			
\$125 to \$60. .... per month.....		25	78
		86	116
Salaries .....		\$115,140.00	\$41,508.58
Wages .....		4,705.00	5,981.08
Other objects of expenditure:			
Traveling expenses.....		28,113.00	12,089.84
Equipment and material.....		3,675.00	3,631.51
Telephone and telegraph service.....		45.00	101.61
Miscellaneous items.....		2,050.00	1,727.08
Total.....		153,728.00	65,039.70

- (248) For estimating and appraising timber and other resources on the national forests preliminary to disposal by sale or to the issue of occupancy permits, and for emergency expenses incident to their sale or use **[\$80,000]** (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1) - \$125,000.00

Appropriation for 1916 .....	\$60,000	Estimate for 1916.....	\$60,000
Appropriation for 1917 .....	60,000	Estimate for 1917.....	60,000
Appropriation for 1918 .....	70,000	Estimate for 1918.....	70,000
Appropriation for 1919 .....	100,000	Estimate for 1919.....	100,000
Appropriation for 1920 .....	80,000	Estimate for 1920.....	80,000
		Estimate for 1921.....	125,000





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Forest Service—Continued.

NOTE.—An increase of \$45,000 is recommended in the above item. It is proposed to use this amount for the following purposes:

(a) \$20,000 to restore to the prewar amount the funds available for cruising timber in preparation for its sale. The appropriation for this purpose was decreased last year by Congress because of a temporary curtailment of the work incident to war conditions. A marked revival of timber sale business has set in, but applications so far have concerned chiefly timber that had been cruised sometime ago. To meet new demands and enable national-forest timber to be cut where needed, and where its cutting is desirable, more cruising must be done.

(b) \$25,000 to provide for additional range surveys, estimates, and plans of grazing management. The number of live stock on the national forests was largely increased as an emergency war measure by admitting the maximum number of stock that could be carried for the time being without injury to the range. To carry the increase permanently (over one million head more in 1918 than in 1916) without overgrazing will not be possible unless methods of more complete utilization can be worked out along lines that will take care of the excess. The loss in grazing fees if the number of stock has to be cut down undoubtedly will far more than offset the increase recommended for these range surveys.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Inspector.....per annum	\$3,500.00	..	1 (pt. time)
Inspector.....do	2,800.00	..	1 (pt. time)
Assistant district forester.....do	2,400.00	..	1 (pt. time)
Lumberman.....do	2,100.00	..	1 (pt. time)
Forest supervisor.....do	1,800.00	..	1 (pt. time)
Examiner.....do	2,100.00	..	1 (pt. time)
Examiner.....do	2,000.00	..	1 (pt. time)
Examiners.....do	1,800.00	4 (2 pt. time, 1 new)	1 (pt. time)
Examiners.....do	1,740.00	2	2 (pt. time)
Examiner.....do	1,700.00	..	1 (pt. time)
Examiner.....do	1,680.00	1	..
Examiner.....do	1,620.00	1	..
Examiners.....do	1,600.00	3 (2 pt. time)	4 (pt. time)
Examiner.....do	1,560.00	1	..
Examiners.....do	1,500.00	7 (2 pt. time)	7 (pt. time)
Examiner.....do	1,440.00	..	1 (pt. time)
Examiners.....do	1,400.00	2	3 (pt. time)
Examiner.....do	1,380.00	1 (pt. time)	1
Examiner.....do	1,320.00	..	1 (pt. time)
Examiners.....do	1,300.00	2 (pt. time)	1 (pt. time)
Examiner.....do	1,200.00	1	1 (temp.)
Assistants.....do	1,200.00	6	2
Assistants.....do	1,100.00	12 (8 temp.)	2 (pt. time)
Assistants.....do	840.00	20 (temp.)	18 (temp.)
Surveyor.....do	1,800.00	1 (new)	1 (pt. time)
Surveyor.....do	1,500.00	1	1 (pt. time)
Surveyor's assistant.....do	1,200.00	..	1 (pt. time)
Timber cruiser.....do	1,500.00	4 (temp.)	1 (temp.)
Transitman.....do	1,200.00	1 (temp.)	1 (temp.)
Compassmen.....do	1,080.00	3 (temp.)	1 (temp.)
Ranger.....do	1,200.00	..	1 (pt. time)
Ranger.....do	1,100.00	..	1 (pt. time)
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$125 to \$60.....per month		110	102
\$0.50 to \$0.30.....per hour		..	93
		183	255
Salaries.....		\$47,079.00	\$23,639.91
Wages.....		34,803.00	35,368.42
<b>Other objects of expenditure:</b>			
Traveling expenses.....		17,690.00	13,892.09
Equipment and material.....		17,135.00	5,728.40
Telephone and telegraph service.....		40.00	53.12
Miscellaneous items.....		8,253.00	5,342.96
<b>Total.....</b>		<b>125,000.00</b>	<b>84,026.90</b>

- (249) For other miscellaneous forest investigations, and for collating, digesting, recording, illustrating, and distributing the results of the experiments and investigations herein provided for **[\$31,280]** (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1) ..... \$56,920.00





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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*General Expenses, Forest Service—Continued.*

Appropriation for 1911.....	\$115,470	Estimate for 1912.....	\$33,750
Appropriation for 1912.....	33,760	Estimate for 1913.....	31,360
Appropriation for 1913.....	31,360	Estimate for 1914.....	40,160
Appropriation for 1914.....	40,160	Estimate for 1915.....	40,160
Appropriation for 1915.....	40,160	Estimate for 1916.....	40,160
Appropriation for 1916.....	40,160	Estimate for 1917.....	33,140
Appropriation for 1917.....	33,140	Estimate for 1918.....	33,140
Appropriation for 1918.....	33,140	Estimate for 1919.....	31,280
Appropriation for 1919.....	31,280	Estimate for 1920.....	31,280
Appropriation for 1920.....	31,280	Estimate for 1921.....	56,920

NOTE.—There is an increase in the above item of \$25,640. It has been demonstrated that a marked increase in the efficiency of fire protection on the national forests and decrease in the number of man-caused fires can be attained if the local public can be sufficiently impressed with the necessity of preventing fires, the importance of law enforcement, and the value of hearty cooperation with forest officers in fire suppression. Also there is a large opportunity for increasing the recreational use of the national forests by gathering information regarding recreation opportunities and making it available to the public in suitable form. Proper provision for work along these lines is now prevented by lack of funds. It is desired to place one man qualified to take care of the conduct of this work in each of the western forest districts. Scenic photographs of high quality, lantern slides, suitable motion pictures, information for tourists regarding means of travel and attractions, signs and posters, and effective exhibits are needed as means for informing the public and increasing the use of the forests. To secure such material and information is impossible without field expenditures and the use of men specially qualified for the tasks involved.

The expansion of the exhibit work of the Department has materially increased the demands on the information office of the Forest Service in Washington. The best use of the material now on hand and under preparation calls for an increase in personnel to handle plans and accompany exhibits for their installation and demonstration. There is also increasing need for attention to the development of motion-picture material.

Maps and atlas folios are prepared from data gathered during field investigations. These maps are reproduced by photolithography at the United States Geological Survey under a cooperative agreement whereby the Forest Service pays the actual cost of the work. The maps could not be printed at the Government Printing Office, as that office is not equipped for lithographic work. The Forest Service aims to have printed a good small-sized administrative map of each forest. A portion of each edition of an administrative map is reserved for public distribution, and copies are given to persons having business within the forests. The Forest Service maintains an atlas of the national forests, which is available for consultation by the public, but this atlas is far from complete, and a large amount of additional work is necessary, which will involve an item for lithographic printing for several years to come.

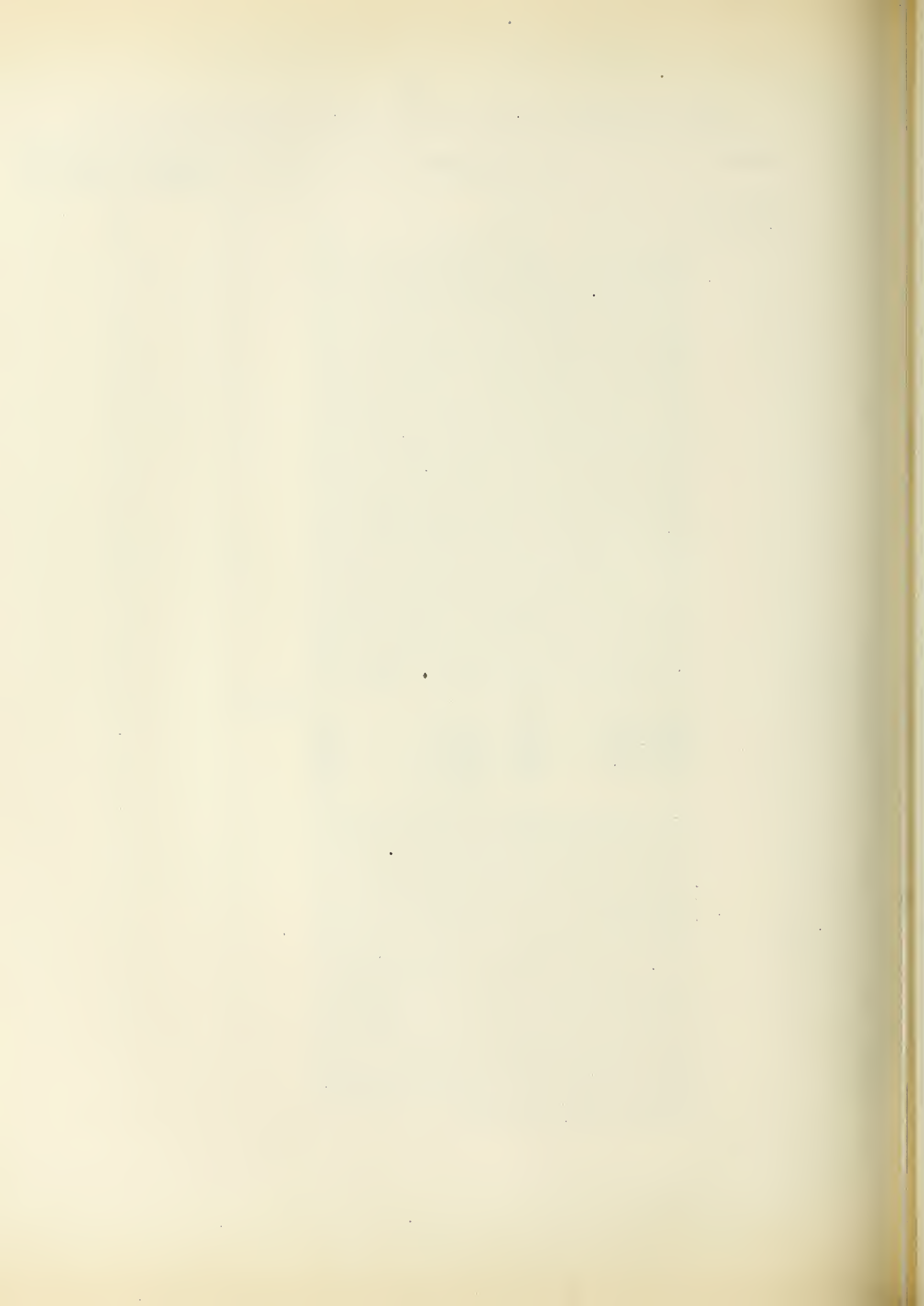
Employees.	Rate.	Estimated, 1921.	Expended, 1919.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Editor.....per annum..	\$3,200.00	1	1
Assistant editor.....do...	2,000.00	1	1
Chief of publications.....do...	2,500.00	1	1
Assistant in forest education.....do...	2,520.00	1 (new)	..
Assistant in forest education.....do...	2,200.00	..	1 (pt. time)
Assistants in forest education.....do...	1,800.00	2 (1 new)	1
Examiner.....do...	2,500.00	1	1
Examiners.....do...	2,200.00	6 (new)	..
Editorial clerk.....do...	1,400.00	1 (new)	..
Geographer.....do...	2,200.00	1	1
Statistician.....do...	1,800.00	1	1
Civil engineer.....do...	2,000.00	1	1
Photographer.....do...	1,400.00	1 (temp.)	1
Map mounter.....do...	1,200.00	1 (new)	..
<b>Wages:</b>			
Carpenters.....per diem..	5.00	..	1 (temp.)
Laborers.....per hour..	\$0.50 to \$0.38	..	36
		19	47
Salaries.....		\$39,520.00	\$20,788.89
Wages.....			1,164.00
<b>Other objects of expenditure:</b>			
Traveling expenses.....		7,400.00	877.95
Equipment and material.....		10,000.00	5,724.72
Miscellaneous items.....			52.37
<b>Total.....</b>		<b>56,920.00</b>	<b>28,607.93</b>





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>		
<p>(250) For the construction and maintenance of roads, trails, bridges, fire lances, telephone lines, cabins, fences, and other improvements necessary for the proper and economical administration, protection, and development of the national forests, <del>["\$450,000"]</del> \$550,000: <i>Provided</i>, That not to exceed <del>["\$50,000"]</del> \$150,000 may be expended for the construction and maintenance of boundary and range division fences, counting corrals, stock driveways and bridges, the development of stock watering places, and the eradication of poisonous plants on the national forests: <i>Provided further</i>, That the Secretary of Agriculture is authorized to use not to exceed \$5,000 of the funds herein appropriated for the purchase of lands needed for ranger stations: <i>And provided further</i>, That hereafter no part of <del>["the money herein appropriated"]</del> any funds appropriated for the Forest Service shall be used to pay the transportation or traveling expenses of any forest officer or agent except he be traveling on business directly connected with the Forest Service and in furtherance of the works, aims, and objects specified and authorized <del>["in and"]</del> by <del>["this appropriation"]</del> law: <i>And provided also</i>, That hereafter no part of <del>["this appropriation"]</del> any funds appropriated for the Forest Service shall be paid or used for the purpose of paying for, in whole or in part, the preparation or publication of any newspaper or magazine article, but this shall not prevent the giving out to all persons without discrimination, including newspaper and magazine writers and publishers, of any facts or official information of value to the public (<i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; July 24, 1919, vol. 41, pp. 247-252, sec. 1</i>) ----- \$550,000.00</p>		
<p>Appropriation for 1913..... \$400,000  Appropriation for 1914..... 400,000  Appropriation for 1915..... 400,000  Appropriation for 1916..... 400,000  Appropriation for 1917..... 400,000  Appropriation for 1918..... 450,000  Appropriation for 1919..... 450,000  Appropriation for 1920..... 450,000</p>	<p>Estimate for 1913..... \$275,000  Estimate for 1914..... 400,000  Estimate for 1915..... 400,000  Estimate for 1916..... 400,000  Estimate for 1917..... 400,000  Estimate for 1918..... 500,000  Estimate for 1919..... 450,000  Estimate for 1920..... 450,000  Estimate for 1921..... 550,000</p>	
<p>NOTE.—The increase of \$100,000 in the above item will, if allowed, be used entirely for range improvements. There is urgent need for improvements for stock control and for extended and better utilization of the national forest grazing ranges, such improvements being boundary and range division fences, counting corrals, stock driveways, the development of stock watering places, and the eradication of poisonous plants. The development of agriculture and the stock-raising industry near the national forests has greatly stimulated the demand for the use of forest range. During the war the authorizations for cattle and horses were largely increased as a war measure. In most instances it will be possible to maintain a still further increase in the number of stock carried if the needed fences and other improvements are made. Otherwise, marked reduction will have to be made in the number of stock, with a resulting decrease in production and embarrassment to the agricultural industry. The total number of stock actually grazed in 1918, as compared with 1916, shows an increase of over 1,000,000 head. The additional appropriation requested under this item is fully justified by the fact that the grazing receipts from the national forests have increased approximately \$1,500,000 since 1914. Unless expenditures are made for adequate range improvements it will be necessary in the course of a few years to reduce the number of stock to a prewar basis, and this will mean depriving farmers, ranchers, and homesteaders of grazing privileges for nearly 1,000,000 head of stock. It will also mean a reduction in receipts from grazing fees of about \$250,000 annually. Besides, in many cases, with the present number of stock, better protection of ranges and watersheds will result if proper range improvements are constructed than if the number of stock is greatly reduced to avoid the construction of such improvements. The increase in this item is especially urgent.</p>		

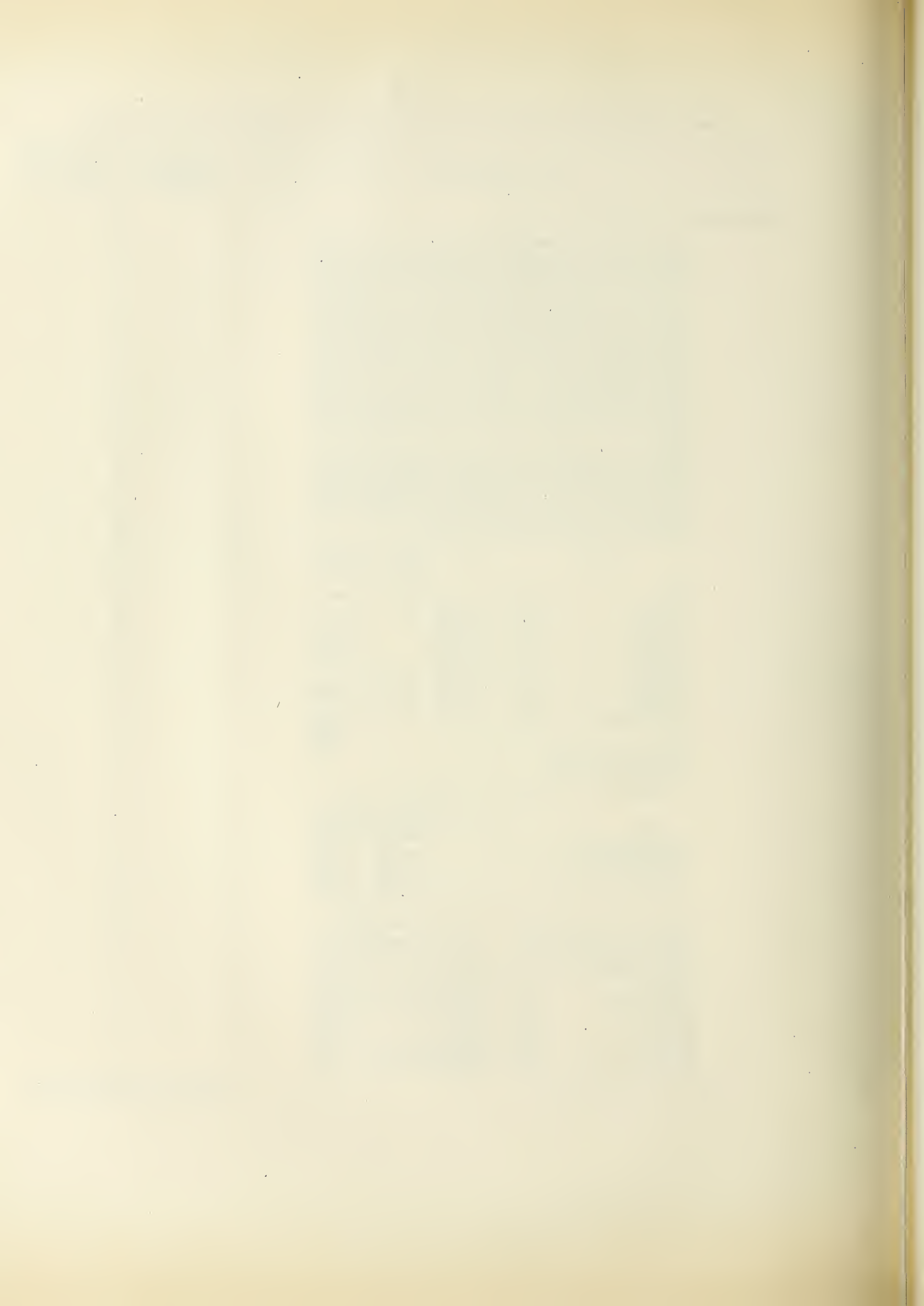




## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>					
<p>The language of this paragraph has been amended so as to authorize the expenditure of \$5,000 for the purchase of lands for ranger stations. There is urgent need for the establishment of a number of ranger stations at points so situated as to be logical centers of business activities for users of the resources of the national forests and where there is no Government land available for ranger station purposes and where it is impossible to lease such lands. The district ranger headquarters are now often located, for lack of land better situated, at points very remote from the public, the bulk of forest users, business enterprises, and the men and supplies upon which they must draw for fire fighting. By placing the ranger stations nearer established communities the district rangers will be able to set definite times when they can be regularly found at their headquarters by those having public business to transact with them. Ten such sites should be immediately secured. The estimated cost of each site is \$500. This provision will involve no increase in the appropriation but will merely authorize the acquisition of a few much needed ranger station sites to permit of more prompt and efficient transaction of national forest business.</p> <p>The provisos prohibiting the use of funds from this appropriation for the payment of traveling expenses except on official business and for the preparation or publication of any newspaper or magazine article have been broadened to include all funds appropriated for the Forest Service. The word "hereafter" has also been inserted in each proviso. These provisions have been included in the appropriation acts since 1911, and it is now proposed to make them permanent legislation so that it will not be necessary to repeat the language from year to year.</p>					
Employees.	Rate.	Estimated, 1921.	Expended, 1919.		
Salaries:		Number.	Number.		
Engineer.....per annum..	\$2,400.00	1	1		
Engineer.....do.....	2,100.00	1	1		
Engineer.....do.....	1,980.00	1	1(pt.time)		
Engineers.....do.....	1,920.00	1	2		
Engineer.....do.....	1,680.00	1	1		
Engineer.....do.....	1,500.00	1	1(pt.time)		
Examiner.....do.....	2,500.00	1	1		
Examiner.....do.....	2,200.00	1	1(pt.time)		
Examiner.....do.....	2,100.00	1	1		
Examiner.....do.....	1,800.00	1(pt.time)	1		
Examiner.....do.....	1,600.00	1	1(pt.time)		
Draftsman.....do.....	1,500.00	1(temp.)	1(pt.time)		
Examiner.....do.....	2,000.00	1	1		
Assistant supervisor.....do.....	1,500.00	1(pt.time)	1(pt.time)		
Ranger and clerk, \$900 and \$840.....do.....		2	2 (1 part time; 1 temp.)		
Wages:					
Carpenters, foremen, blacksmiths, packers, teamsters, cooks, linemen, pile drivers, mechanics, plumbers, and laborers, \$7 to \$2.....per diem..		2,930	1,688		
		2,942	1,701		
Salaries.....		\$21,080.00	\$12,441.45		
Wages.....		229,557.00	193,178.00		
Other objects of expenditure:					
Traveling expenses.....		16,905.00	16,637.46		
Equipment and material.....		244,110.00	186,837.97		
Telephone and telegraph service.....		50.00	108.87		
Miscellaneous items.....		38,298.00	18,643.62		
Total.....		550,000.00	427,847.37		
CONSTRUCTION WORK CONTEMPLATED, 1921.		CONSTRUCTION WORK DONE, 1919.			
Based on records and present market conditions of labor and material so far as practicable, the average unit costs of construction work on the national forests for 1921 are estimated as follows:		Of this appropriation there was expended for construction work on national forests, as follows:			
Trails, per mile.....	\$127.00	Trails, 905 miles.....	\$88,690.80		
Telephone lines, per mile.....	90.00	Telephone lines, 722 miles.....	59,204.01		
Fire breaks, per mile.....	165.00	Fire breaks, 14 miles.....	1,372.35		
Fences, per mile.....	215.00	Fences, 73 miles.....	12,410.70		
Lookout structures, each.....	400.00	Lookout structures, 52.....	16,640.42		
Dwellings, each.....	1,450.00	Dwellings, 29.....	16,994.63		
Barns, each.....	330.00	Barns, 26.....	7,820.90		
Other buildings, each.....	131.00	Other buildings, 209.....	24,871.03		
Corrals, each.....	95.00	Corrals, 4.....	328.14		
Bridges, each.....	900.00	Bridges, 25.....	14,625.30		
Water improvements, each.....	164.00	Water improvements, 122.....	13,420.60		
		Other miscellaneous improvements, 191.....	3,629.10		
In all, for general expenses.....		\$5,745,775.00		\$3,481,209.00	





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Forest Service—Continued.</i>			
Appropriations for 1911.....	\$4,947,900	Estimates for 1912.....	\$3,189,420
Deficiency act.....	900,000	Estimates for 1913.....	3,208,005
Appropriations for 1912.....	3,214,420	Estimates for 1914.....	3,198,939
Appropriations for 1913.....	3,107,285	Estimated for 1915.....	3,238,096
Appropriations for 1914.....	3,160,119	Estimates for 1916.....	3,212,676
Appropriations for 1915.....	3,243,096	Estimates for 1917.....	3,188,616
Deficiency act.....	349,243	Estimates for 1918.....	3,340,775
Appropriations for 1916.....	3,217,676	Estimates for 1919.....	3,247,935
Deficiency act.....	57,300	Estimates for 1920.....	3,541,209
Appropriations for 1917.....	3,188,415	Estimates for 1921.....	5,745,775
Appropriations for 1918.....	3,374,475		
Deficiency act.....	775,000		
Appropriations for 1919.....	3,248,985		
Appropriations for 1920.....	3,481,209		
<p>(251) To enable the Secretary of Agriculture more effectively to carry out the provisions of the act of March 1, 1911 (Thirty-sixth Statutes, page 961), entitled "An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers," <del>[\$21,770]</del> \$28,470 of the moneys appropriated therein, or for carrying out its purposes, shall be available for the employment of agents, title attorneys, clerks, assistants, and other labor, and for the purchase of supplies and equipment required for the purpose of said act in the city of Washington.</p>			
<p>NOTE.—Provision is made in the above item for increasing by \$6,700 the amount which may be expended for administrative expenses in Washington from the appropriations made available for carrying out the provisions of the Weeks law. The agricultural bill for the fiscal year 1920 appropriated \$600,000, available until expended, for the acquisition of lands under the provisions of the "Weeks Law" (act of Mar. 1, 1911, 36 Stat., 961), and with the balance available from previous appropriations a fund of approximately \$1,000,000 was at hand on July 1, 1919, to carry on this work and to put it on a prewar basis. Additional supervisory and clerical assistance in Washington is needed, and it is estimated that \$23,100 will be necessary for this purpose in the fiscal year 1921. To this amount must be added the Washington office supervision of the fund for cooperative fire protection of forested watersheds of navigable streams, the current appropriation for which is \$100,000, which is increased to \$200,000 in the estimates for the fiscal year 1921. This supervision amounts in salaries to \$5,370, making a total increase necessary in the limitation of \$6,700. This will permit the employment in Washington of the needed supervisory force for the appraisal of lands, for drafting and reproduction of official plats and maps, the survey of lands, the legal force for the review of abstracts of title and other legal matters connected with the purchase of lands, together with the necessary clerical assistance as well as the supervision of plans and expenditures for the cooperative work with States in fire protection of the forested watersheds of navigable streams.</p>			
<p><i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i></p>			
<p>GENERAL EXPENSES—FOREST SERVICE.</p>			
1 clerk, \$1,300 per annum.		1 clerk, \$1,200 per annum.	
<p>COOPERATIVE WORK—FOREST SERVICE.</p>			
1 clerk, \$1,000 per annum.			
<p>ACQUISITION OF LANDS—FOREST SERVICE.</p>			
1 clerk, \$1,200 per annum.		1 clerk, \$960 per annum.	
Total for Forest Service.....		\$6,557,895.00	\$5,966,869.00

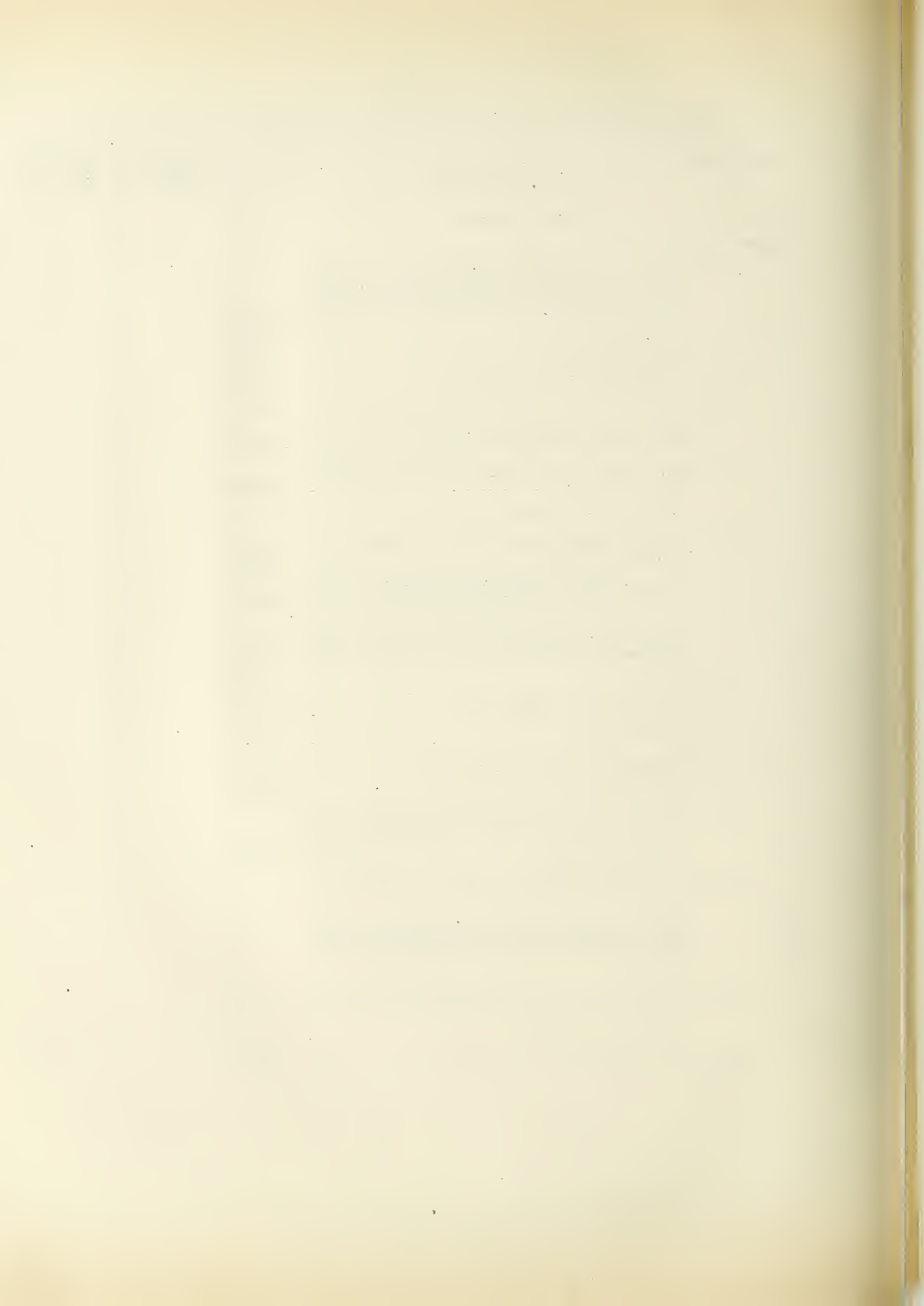




## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

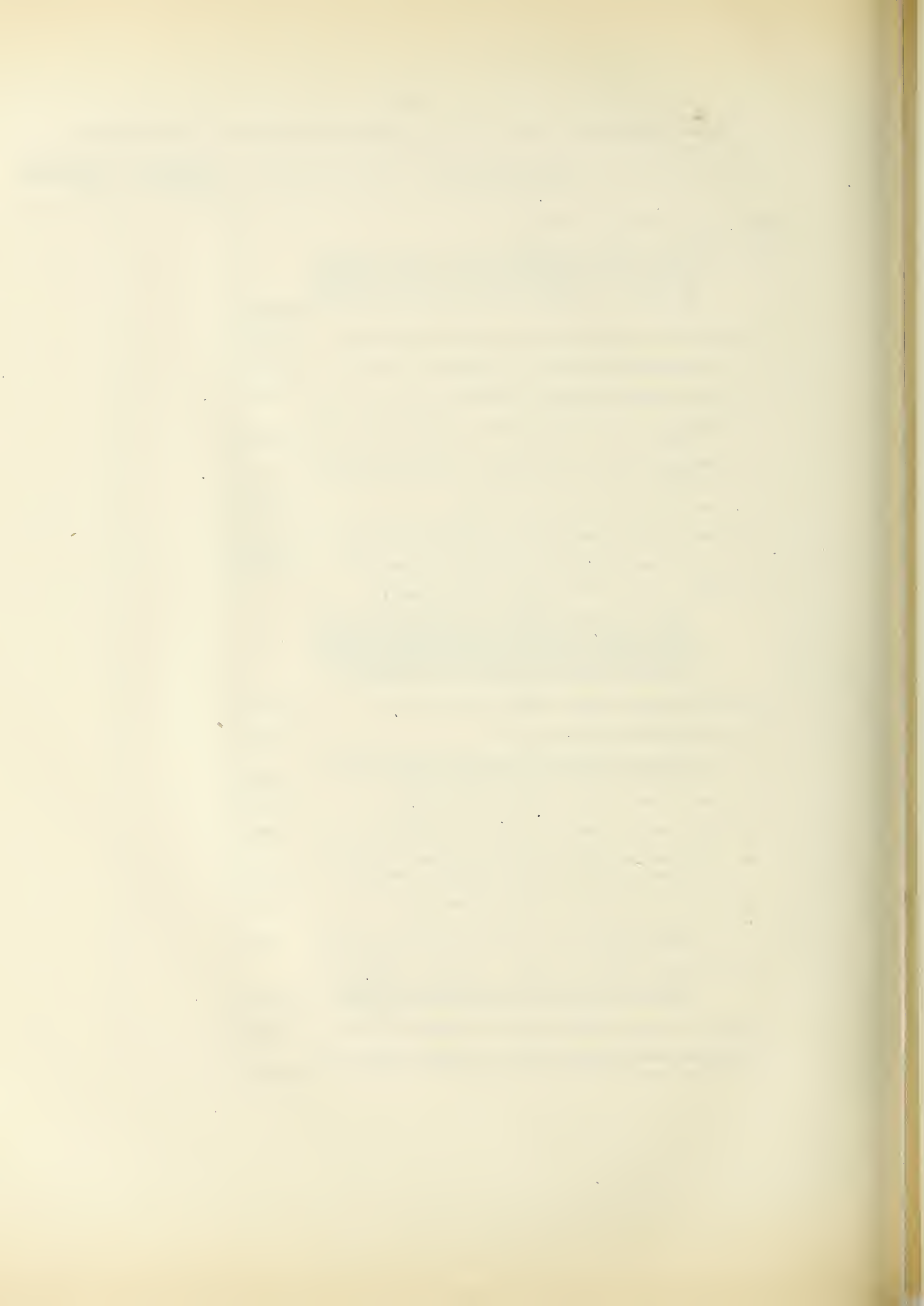
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
BUREAU OF CHEMISTRY.		
<i>Salaries, Bureau of Chemistry—</i>		
(1) One chemist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Mar. 2, 1901, vol. 31, p. 930, sec. 1; July 24, 1919, vol. 41, pp. 252, 253, sec. 1</i> ).....	\$5,000.00	
(2) One chief clerk ( <i>same acts</i> ).....	2,500.00	
(3) One administrative assistant ( <i>same acts</i> ).....	2,500.00	
(4) Three executive clerks, at \$2,000 each ( <i>same acts</i> ).....	6,000.00	
(5) Twelve clerks, class 4 (increase of 2 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ).....	21,600.00	
(6) Fourteen clerks, class 3 (increase of 1 in lieu of 1 assistant, \$1,600) ( <i>same acts</i> ).....	22,400.00	
NOTE.—See note under item 28.		
(7) One clerk (by transfer from lump fund for dehydration investigations) ( <i>same acts</i> ).....	1,500.00	
(8) Three clerks, at \$1,440 each (increase of 1 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ).....	4,320.00	
(9) Twenty-two clerks, class 2 (increase of 2 by transfer from lump funds for food and drugs act and poultry and egg investigations) ( <i>same acts</i> ).....	30,800.00	
(10) One clerk ( <i>same acts</i> ).....	1,300.00	
(11) Seventy-five clerks, class 1 ( <i>same acts</i> ).....	90,000.00	
(12) One clerk ( <i>same acts</i> ).....	1,100.00	
(13) Thirteen clerks, at \$1,020 each ( <i>same acts</i> ).....	13,260.00	
(14) Fifteen clerks, at \$1,000 each ( <i>same acts</i> ).....	15,000.00	
(15) One machine operator (by transfer from lump fund for food and drugs act, with change of title from multigraph operator) ( <i>same acts</i> ).....	1,100.00	
(16) [Two multigraph operators, at \$1,000 each, changed to 2 machine operators, at \$1,000 each]		
NOTE.—This change in designation is recommended in order to afford greater latitude in filling vacancies. One of these places for multigraph operator is now vacant. If the change in title is approved, it is proposed to transfer into the vacant place a photostat operator now carried on a lump fund.		
(17) Two machine operators, at \$1,000 each (in lieu of 2 multigraph operators, at \$1,000 each) ( <i>same acts</i> ).....	2,000.00	
NOTE.—See note under item 16.		
(18) One clerk ( <i>same acts</i> ).....	960.00	





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
(19) Ten clerks, at \$900 each (decrease of 1 by transfer to statutory roll, Division of Publications) ( <i>R.S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Mar. 2, 1901, vol. 31, p. 930, sec. 1; July 24, 1919, vol. 41, pp. 252, 253, sec. 1</i> ) -----	\$9,000.00	
(20) Two food and drug inspectors, at \$2,500 each ( <i>same acts</i> ) ----	5,000.00	
(21) Two food and drug inspectors, at \$2,250 each ( <i>same acts</i> ) ----	4,500.00	
(22) One food and drug inspector ( <i>same acts</i> ) -----	2,120.00	
(23) Thirteen food and drug inspectors, at \$2,000 each ( <i>same acts</i> ) -----	26,000.00	
(24) Thirteen food and drug inspectors, at \$1,800 each ( <i>same acts</i> ) -----	23,400.00	
(25) One food and drug inspector ( <i>same acts</i> ) -----	1,620.00	
(26) Eleven food and drug inspectors, at \$1,600 each ( <i>same acts</i> ) --	17,600.00	
(27) Ten food and drug inspectors, at \$1,400 each ( <i>same acts</i> ) ----	14,000.00	
(28) <b>【One assistant, \$1,600, changed to 1 clerk, class 3】</b>		
NOTE.—This change in designation is recommended as the employee occupying the position of assistant is engaged upon clerical work. The change is proposed merely with the view of reducing the number of grades. The place of "assistant" was originally filled by an employee who has since qualified and been appointed as a food and drug inspector, the vacancy thus created being filled by a clerk. (See item 6.)		
(29) Four laboratory helpers, at \$1,200 each ( <i>same acts</i> ) -----	4,800.00	
(30) One laboratory helper ( <i>same acts</i> ) -----	1,020.00	
(31) Five laboratory helpers, at \$1,000 each (increase of 1 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) ----	5,000.00	
(32) Four laboratory helpers, at \$960 each ( <i>same acts</i> ) -----	3,840.00	
(33) Three laboratory helpers, at \$900 each ( <i>same acts</i> ) -----	2,700.00	
(34) Eight laboratory helpers, at \$840 each (increase of 1 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) ----	6,720.00	
(35) Two laboratory helpers, at \$780 each ( <i>same acts</i> ) -----	1,560.00	
(36) One laborer (by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) -----	780.00	
(37) Twenty-six laboratory helpers or laborers, at \$720 each (increase of 2 by transfer from lump funds for color investigations and poultry and egg investigations) ( <i>same acts</i> ) --	18,720.00	
(38) Two laboratory helpers or laborers, at \$660 each ( <i>same acts</i> ) -	1,320.00	
(39) Twenty-seven laboratory helpers or laborers, at \$600 each ( <i>same acts</i> ) -----	16,200.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

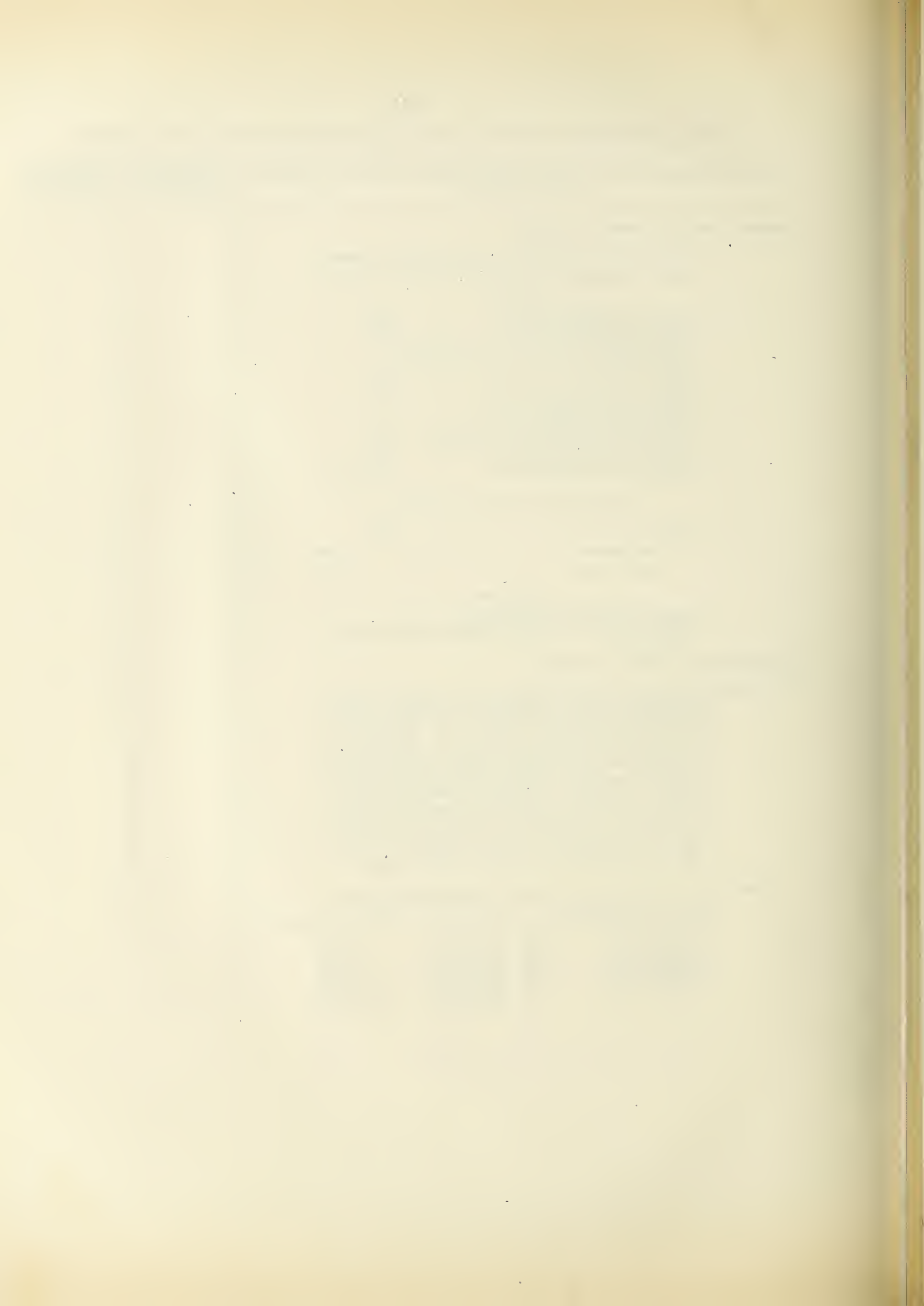
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
(40) One laboratory assistant ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Apr. 14, 1896</i> , vol. 29, p. 100, sec. 1; <i>Mar. 2, 1901</i> , vol. 31, p. 930, sec. 1; <i>July 24, 1919</i> , vol. 41, pp. 252, 253, sec. 1) -----	\$1,200.00	
(41) One toolmaker ( <i>same acts</i> ) -----	1,200.00	
(42) Four samplers, at \$1,200 each (increase of 1 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) -----	4,800.00	
(43) One janitor ( <i>same acts</i> ) -----	1,020.00	
(44) One mechanic ( <i>same acts</i> ) -----	1,800.00	
(45) Two mechanics, at \$1,400 each ( <i>same acts</i> ) -----	2,800.00	
(46) One mechanic ( <i>same acts</i> ) -----	1,200.00	
(47) One mechanic ( <i>same acts</i> ) -----	1,020.00	
(48) One mechanic ( <i>same acts</i> ) -----	1,000.00	
(49) One mechanic ( <i>same acts</i> ) -----	960.00	
(50) One mechanic ( <i>same acts</i> ) -----	900.00	
(51) Two student assistants, at \$300 each ( <i>same acts</i> ) -----	600.00	
(52) Two messengers, at \$840 each ( <i>same acts</i> ) -----	1,680.00	
(53) One skilled laborer ( <i>same acts</i> ) -----	1,050.00	
(54) One skilled laborer (by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) -----	900.00	
(55) One skilled laborer ( <i>same acts</i> ) -----	840.00	
(56) One messenger boy (by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) -----	720.00	
(57) Seven messenger boys, at \$600 each ( <i>same acts</i> ) -----	4,200.00	
(58) Three messenger boys, at \$540 each ( <i>same acts</i> ) -----	1,620.00	
(59) Six messenger boys, at \$480 each ( <i>same acts</i> ) -----	2,880.00	
(60) Three messenger boys, at \$420 each ( <i>same acts</i> ) -----	1,260.00	
(61) Two messenger boys, at \$360 each ( <i>same acts</i> ) -----	720.00	
(62) Seven laborers, at \$480 each ( <i>same acts</i> ) -----	3,360.00	
(63) Thirteen charwomen, at \$240 each ( <i>same acts</i> ) -----	3,120.00	
	\$428,090.00	\$411,670.00
Appropriations for 1911..... \$79,360      Estimates for 1912..... \$242,190 Appropriations for 1912..... 242,190      Estimates for 1913..... 262,940 Appropriations for 1913..... 254,660      Estimates for 1914..... 274,860 Appropriations for 1914..... 273,860      Estimates for 1915..... 281,500 Appropriations for 1915..... 282,600      Estimates for 1916..... 291,540 Appropriations for 1916..... 291,540      Estimates for 1917..... 315,590 Appropriations for 1917..... 315,590      Estimates for 1918..... 362,130 Appropriations for 1918..... 362,990      Estimates for 1919..... 393,910 Appropriations for 1919..... 393,910      Estimates for 1920..... 411,670 Appropriations for 1920..... 411,670      Estimates for 1921..... 428,090		





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30 1920.	
<i>Salaries, Bureau of Chemistry—Continued.</i>			
NOTE.—Apparent increase, \$16,420; actual decrease, \$900, as follows:			
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>			
2 clerks, class 4, from food and drugs act.....	\$3,600		
1 clerk from dehydration investigations.....	1,500		
1 clerk from food and drugs act.....	1,440		
2 clerks, class 2, from food and drugs act and poultry and egg investigations.....	2,800		
1 machine operator from food and drugs act, with change of title.....	1,100		
1 laboratory helper from food and drugs act.....	1,000		
1 laboratory helper from food and drugs act.....	840		
1 laborer from food and drugs act.....	780		
2 laboratory helpers or laborers, at \$720 each, from color investigations and poultry and egg investigations.....	1,440		
1 sampler from food and drugs act.....	1,200		
1 skilled laborer from food and drugs act.....	900		
1 messenger boy from food and drugs act.....	720		
	\$17,320		
<i>Transfer to statutory roll, Division of Publications.</i>			
1 clerk.....	\$900		
Actual decrease.....	900		
Apparent increase.....	16,420		
<i>Change of title.</i>			
1 assistant, \$1,600, changed to 1 clerk, class 3.			
2 multigraph operators, at \$1,000 each, changed to 2 machine operators, at \$1,000 each.			
<i>General Expenses, Bureau of Chemistry—</i>			
(64) For all necessary expenses, for chemical apparatus, chemicals and supplies, repairs to apparatus, gas, electric current, official traveling expenses, telegraph and telephone service, express and freight charges, for the employment of such assistants, clerks, and other persons as the Secretary of Agriculture may consider necessary for the purposes named, in the city of Washington and elsewhere, in conducting investigations; collecting, reporting, and illustrating the results of such investigations; and for rent outside of the District of Columbia, for carrying out the investigations and work herein authorized, as follows ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1</i> ):			
(65) For conducting the investigations contemplated by the act of May 15, 1862, relating to the application of chemistry to agriculture ( <i>same acts</i> ).....	\$42,400.00		
Appropriation for 1914.....	\$65,000	Estimate for 1914.....	\$65,000
Appropriation for 1915.....	52,400	Estimate for 1915.....	52,400
Appropriation for 1916.....	42,400	Estimate for 1916.....	44,400
Appropriation for 1917.....	42,400	Estimate for 1917.....	42,400
Appropriation for 1918.....	42,400	Estimate for 1918.....	42,400
Appropriation for 1919.....	42,400	Estimate for 1919.....	42,400
Appropriation for 1920.....	42,400	Estimate for 1920.....	42,400
		Estimate for 1921.....	42,400





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.																																																																																																																								
<i>General Expenses, Bureau of Chemistry—Continued.</i>																																																																																																																										
<table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><b>Salaries:</b></td></tr><tr><td>Chemist in charge.....per annum..</td><td>\$3,780.00</td><td><i>Number.</i> 1 (pt. time)</td><td><i>Number.</i> 1 (pt. time)</td></tr><tr><td>Chemist in charge.....do.....</td><td>3,000.00</td><td>1 (temp.)</td><td>1</td></tr><tr><td>Chemist in charge.....do.....</td><td>2,760.00</td><td>1 (pt. time)</td><td>..</td></tr><tr><td>Chemist in charge.....do.....</td><td>2,520.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Chemist.....do.....</td><td>3,000.00</td><td>1</td><td>..</td></tr><tr><td>Chemist.....do.....</td><td>2,760.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Chemist.....do.....</td><td>2,520.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr><tr><td>Chemist.....do.....</td><td>2,400.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Chemists.....do.....</td><td>2,280.00</td><td>2 (1 pt. time)</td><td>2 (1 pt. time)</td></tr><tr><td>Chemists.....do.....</td><td>2,040.00</td><td>..</td><td>2 (1 pt. time)</td></tr><tr><td>Chemists.....do.....</td><td>1,800.00</td><td>3 (1 temp.)</td><td>2 (1 temp.)</td></tr><tr><td>Chemist.....do.....</td><td>1,740.00</td><td>..</td><td>1</td></tr><tr><td>Chemists.....do.....</td><td>1,620.00</td><td>1</td><td>2</td></tr><tr><td>Chemists.....do.....</td><td>1,440.00</td><td>7 (1 pt. time)</td><td>6 (2 pt. time; 2 temp.)</td></tr><tr><td>Chemist.....do.....</td><td>1,200.00</td><td>..</td><td>3 (1 pt. time)</td></tr><tr><td>Mycologist.....do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,800.00</td><td>1 (temp.)</td><td>..</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,620.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Administrative assistant.....do.....</td><td>2,500.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Clerks.....do.....</td><td>1,200.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td>Chemists' aid, assistants, and specialists, \$840 per annum to \$12.50 per diem.....</td><td></td><td>2 (1 temp.)</td><td>2 (temp.)</td></tr><tr><td></td><td></td><td>22</td><td>31</td></tr><tr><td>Salaries.....</td><td></td><td>\$30,000.00</td><td>\$30,508.50</td></tr><tr><td colspan="4"><b>Other objects of expenditure:</b></td></tr><tr><td>Traveling expenses.....</td><td></td><td>6,300.00</td><td>4,974.15</td></tr><tr><td>Equipment and material.....</td><td></td><td>5,500.00</td><td>4,344.51</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>600.00</td><td>558.08</td></tr><tr><td>Total.....</td><td></td><td>42,400.00</td><td>40,385.24</td></tr></table>	Employees.	Rate.	Estimated, 1921.	Expended, 1919.	<b>Salaries:</b>				Chemist in charge.....per annum..	\$3,780.00	<i>Number.</i> 1 (pt. time)	<i>Number.</i> 1 (pt. time)	Chemist in charge.....do.....	3,000.00	1 (temp.)	1	Chemist in charge.....do.....	2,760.00	1 (pt. time)	..	Chemist in charge.....do.....	2,520.00	..	1 (pt. time)	Chemist.....do.....	3,000.00	1	..	Chemist.....do.....	2,760.00	..	1 (pt. time)	Chemist.....do.....	2,520.00	1 (pt. time)	1 (pt. time)	Chemist.....do.....	2,400.00	..	1 (pt. time)	Chemists.....do.....	2,280.00	2 (1 pt. time)	2 (1 pt. time)	Chemists.....do.....	2,040.00	..	2 (1 pt. time)	Chemists.....do.....	1,800.00	3 (1 temp.)	2 (1 temp.)	Chemist.....do.....	1,740.00	..	1	Chemists.....do.....	1,620.00	1	2	Chemists.....do.....	1,440.00	7 (1 pt. time)	6 (2 pt. time; 2 temp.)	Chemist.....do.....	1,200.00	..	3 (1 pt. time)	Mycologist.....do.....	1,800.00	1	1	Scientific assistant.....do.....	1,800.00	1 (temp.)	..	Scientific assistant.....do.....	1,620.00	..	1 (pt. time)	Administrative assistant.....do.....	2,500.00	..	1 (pt. time)	Clerks.....do.....	1,200.00	..	2 (temp.)	Chemists' aid, assistants, and specialists, \$840 per annum to \$12.50 per diem.....		2 (1 temp.)	2 (temp.)			22	31	Salaries.....		\$30,000.00	\$30,508.50	<b>Other objects of expenditure:</b>				Traveling expenses.....		6,300.00	4,974.15	Equipment and material.....		5,500.00	4,344.51	Miscellaneous items.....		600.00	558.08	Total.....		42,400.00	40,385.24		
Employees.	Rate.	Estimated, 1921.	Expended, 1919.																																																																																																																							
<b>Salaries:</b>																																																																																																																										
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Chemist in charge.....do.....	3,000.00	1 (temp.)	1																																																																																																																							
Chemist in charge.....do.....	2,760.00	1 (pt. time)	..																																																																																																																							
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Chemists' aid, assistants, and specialists, \$840 per annum to \$12.50 per diem.....		2 (1 temp.)	2 (temp.)																																																																																																																							
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Salaries.....		\$30,000.00	\$30,508.50																																																																																																																							
<b>Other objects of expenditure:</b>																																																																																																																										
Traveling expenses.....		6,300.00	4,974.15																																																																																																																							
Equipment and material.....		5,500.00	4,344.51																																																																																																																							
Miscellaneous items.....		600.00	558.08																																																																																																																							
Total.....		42,400.00	40,385.24																																																																																																																							

- (66) For collaboration with other departments of the Government desiring chemical investigations and whose heads request the Secretary of Agriculture for such assistance, and for other miscellaneous work **["\$14,000"]** (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*)..... \$50,000.00

Appropriation for 1914.....	\$44,000	Estimate for 1914.....	\$55,000
Appropriation for 1915.....	14,000	Estimate for 1915.....	14,000
Appropriation for 1916.....	14,000	Estimate for 1916.....	14,000
Appropriation for 1917.....	14,000	Estimate for 1917.....	14,000
Appropriation for 1918.....	14,000	Estimate for 1918.....	14,000
Appropriation for 1919.....	14,000	Estimate for 1919.....	14,000
Appropriation for 1920.....	14,000	Estimate for 1920.....	14,000
		Estimate for 1921.....	50,000

NOTE.—There is an increase in the above item of \$36,000. The present appropriation is entirely inadequate to provide for the large amount of testing and analytical work requested by other departments, and the bureau has been compelled to do this work at the expense of its regulatory work. The Bureau of Chemistry, with its special facilities for examining and analyzing foods and drugs and its trained force of analysts, is peculiarly fitted to render assistance of this nature. Its laboratories are located at large ports of entry and at places where Federal courts are situated, and its chemists can be utilized whenever occasion arises, at a saving in time and expense to the other departments requiring their services. With the increased appropriation requested it will be possible to do the collaborative work required without decreasing the efficiency of other important activities of the bureau; with a less amount this collaborative work can be done only at the expense of other work. Unless the Bureau of Chemistry is provided with proper facilities for handling promptly and efficiently this collaborative work, it will be necessary for other departments to establish laboratories of their own, which in the long run will cost the Government, as a whole, much more than if done by this department. With an appropriation of \$50,000 it is believed that the Bureau of Chemistry can do, in conjunction with its other activities, all necessary analytical and testing work which if done separately by the different departments concerned would cost not less than \$200,000.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
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## General Expenses, Bureau of Chemistry—Continued.

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Chemist in charge.....per annum..	\$3,240.00	1	1 (pt. time)
Engineer in charge.....do.....	3,000.00	1	..
Engineer in charge.....do.....	2,760.00	..	1
Chemist.....do.....	2,520.00	1	1
Chemist.....do.....	2,400.00	..	1 (pt. time)
Chemist.....do.....	2,283.00	1 (pt. time)	..
Chemist.....do.....	1,800.00	1 (pt. time)	..
Chemists.....do.....	1,620.00	8 (6 new)	..
Chemists.....do.....	1,440.00	10 (new)	..
Microanalyst.....do.....	2,040.00	..	1 (pt. time)
Assistant in grain dust explosions.....do.....	1,800.00	..	1 (pt. time)
Assistant in grain dust explosions.....do.....	1,560.00	..	1 (pt. time)
Clerk.....do.....	1,200.00	..	1 (temp.)
		23	8
Salaries.....		\$38,000.00	\$12,525.00
Other objects of expenditure:			
Traveling expenses.....		2,000.00	224.76
Equipment and material.....		8,000.00	..
Miscellaneous items.....		2,000.00	265.44
Total.....		50,000.00	13,015.20

- (67) For investigating the character of the chemical and physical tests which are applied to American food products in foreign countries, and for inspecting the same before shipment when desired by the shippers or owners of these products intended for countries where chemical and physical tests are required before the said products are allowed to be sold therein; and for all necessary expenses in connection with such inspection and studies of methods of analysis in foreign countries (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*).....

\$4,280.00

Appropriation for 1911.....	\$5,000	Estimate for 1912.....	\$5,000
Appropriation for 1912.....	4,280	Estimate for 1913.....	4,280
Appropriation for 1913.....	4,280	Estimate for 1914.....	4,280
Appropriation for 1914.....	4,280	Estimate for 1915.....	4,280
Appropriation for 1915.....	4,280	Estimate for 1916.....	4,280
Appropriation for 1916.....	4,280	Estimate for 1917.....	4,280
Appropriation for 1917.....	4,280	Estimate for 1918.....	4,280
Appropriation for 1918.....	4,280	Estimate for 1919.....	4,280
Appropriation for 1919.....	4,280	Estimate for 1920.....	4,280
Appropriation for 1920.....	4,280	Estimate for 1921.....	4,280

Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		<i>Number.</i>	<i>Number.</i>
Chemist in charge.....per annum..	\$3,000.00	1 (pt. time)	..
Chemist in charge.....do.....	2,760.00	..	1 (pt. time)
Chemist.....do.....	1,800.00	1	..
Chemist.....do.....	1,740.00	..	1
Clerk.....do.....	1,440.00	..	1 (temp.)
Clerk.....do.....	1,400.00	..	1 (pt. time)
		2	4
Salaries.....		\$3,600.00	\$3,313.34
Other objects of expenditure:			
Equipment and material.....		680.00	227.92
Total.....		4,280.00	3,541.26



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.		Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1920.
<i>General Expenses, Bureau of Chemistry—Continued.</i>			
(68) For investigating the preparation for market, handling, grading, packing, freezing, drying, storing, transportation, and preservation of poultry and eggs, and for experimental shipments of poultry and eggs within the United States, in cooperation with the Bureau of Markets and the Bureau of Animal Industry <b>[\$45,000]</b> ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1</i> ) .....		\$42,880.00	
Appropriation for 1914.....	\$50,000	Estimate for 1914.....	\$40,000
Appropriation for 1915.....	50,000	Estimate for 1915.....	50,000
Appropriation for 1916.....	40,000	Estimate for 1916.....	49,400
Appropriation for 1917.....	40,000	Estimate for 1917.....	49,000
Appropriation for 1918.....	40,000	Estimate for 1918.....	50,000
Appropriation for 1919.....	40,000	Estimate for 1919.....	40,000
Appropriation for 1920.....	45,000	Estimate for 1920.....	50,000
		Estimate for 1921.....	42,880
NOTE.—There is a decrease in this item of \$2,120, due to the transfer to the statutory roll of 1 clerk of class 2 and 1 laboratory helper or laborer at \$720.			
Employees.	Rate.	Estimated, 1921.	Expended, 1919.
Salaries:		Number.	Number.
Chief of laboratory.....per annum..	\$3,780.00	1	1
Chief of laboratory.....do....	3,500.00	..	1 (pt. time)
Investigator in poultry and egg handling.....do....	3,000.00	..	1 (temp.)
Investigator in poultry and egg handling.....do....	2,760.00	1	..
Investigators in poultry and egg handling.....do....	2,520.00	..	2 (1 temp.)
Investigator in poultry and egg handling.....do....	1,908.00	..	1 (temp.)
Investigators in poultry and egg handling.....do....	1,620.00	1	2 (1 temp; 1 pt. time)
Investigators in poultry and egg handling.....do....	1,440.00	3 (1 temp.)	3 (1 temp.)
Investigators in poultry and egg handling.....do....	1,200.00	6	4
Investigator in poultry and egg handling.....do....	1,000.00	..	1 (temp.)
Chemist.....do....	2,500.00	1	1 (pt. time)
Chemist.....do....	2,280.00	..	1 (temp.)
Chemist.....do....	2,040.00	1	1
Chemist.....do....	1,620.00	1	1 (temp.)
Chemists.....do....	1,440.00	1	..
Bacteriologist.....do....	2,040.00	1	1 (pt. time)
Draftsman.....do....	1,200.00	1	1 (pt. time)
Draftsman.....do....	1,000.00	1 (temp.)	..
Draftsman, \$960 to \$720.....do....	..	2 (temp.)	..
Photostat operator.....do....	1,000.00	..	1 (pt. time)
Artist and microanalyst—\$9 to 7.....per diem..	..	..	2 (temp.)
Clerk.....per annum..	1,400.00	..	1 (pt. time)
Clerk.....do....	1,200.00	..	1 (temp.)
Wages:			
Laborer.....do....	720.00	..	1 (pt. time)
		22	27
Salaries.....		\$31,000.00	\$18,944.08
Wages.....			266.67
Other objects of expenditure:			
Traveling expenses.....		5,000.00	8,998.12
Equipment and material.....		3,200.00	4,199.77
Telephone and telegraph service.....		400.00	429.98
Miscellaneous items.....		3,280.00	5,430.23
Total.....		42,880.00	38,268.85



3. 2. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838.

## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
|---|------------|---|---|---------------------|--------------------|-----------|--|--|--|---------------------------------------|------------|---------|---------|--------------------------------|----------|--------------|--------------|-----------------------------|----------|---|---|-----------------------------|----------|--------------|--------------|-----------------------------|----------|---|-----------|-----------------------------|----------|---|---|----------------------|----------|--------------|--------------|----------------------|----------|---|-----------|----------------------|----------|---|---|---|----------|---|---|---|----------|---|---|---|----------|---|---|---|----------|-----------|---|--------------------|----------|---|-----------|--|--|----|---|---------------|--|-------------|-------------|-------------------------------|--|--|--|-------------------------|--|----------|----------|-----------------------------|--|----------|----------|--------------------------------------|--|--------|--------|--------------------------|--|----------|----------|------------|--|-----------|-----------|--|--|
| <i>General Expenses, Bureau of Chemistry—Continued.</i>   |            |   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| (69) For investigating the handling, grading, packing, canning, freezing, storing, and transportation of fish, shrimp, oysters, and other shellfish, and for experimental shipments of fish, for the utilization of waste products, and the development of new sources of food ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1</i> ) .....   |            | \$20,000.00   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1914.....   | \$40,000   | Estimate for 1914.....  | \$40,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1915.....   | 40,000     | Estimate for 1915.....  | 40,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1916.....   | 19,000     | Estimate for 1916.....  | 24,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1917.....   | 19,000     | Estimate for 1917.....  | 19,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1918.....   | 19,000     | Estimate for 1918.....  | 23,600  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1919.....   | 19,000     | Estimate for 1919.....  | 19,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1920.....   | 20,000     | Estimate for 1920.....  | 20,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
|   |            | Estimate for 1921.....  | 20,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| <table> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr> <tr> <td colspan="4">Salaries:</td></tr> <tr> <td>Mycologist in charge..... per annum..</td><td>\$3,240.00</td><td>Number.</td><td>Number.</td></tr> <tr> <td>Chemist in charge..... do.....</td><td>2,760.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr> <tr> <td>Bacteriologist..... do.....</td><td>2,520.00</td><td>1</td><td>1</td></tr> <tr> <td>Bacteriologist..... do.....</td><td>2,280.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr> <tr> <td>Bacteriologist..... do.....</td><td>2,040.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Bacteriologist..... do.....</td><td>1,620.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemist..... do.....</td><td>2,500.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr> <tr> <td>Chemist..... do.....</td><td>1,800.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Chemist..... do.....</td><td>1,620.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant in fish investigations..... do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant in fish investigations..... do.....</td><td>1,620.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant in fish investigations..... do.....</td><td>1,440.00</td><td>2</td><td>1</td></tr> <tr> <td>Assistant in fish investigations..... do.....</td><td>1,200.00</td><td>1 (temp.)</td><td>1</td></tr> <tr> <td>Clerk..... do.....</td><td>1,200.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td></td><td></td><td>10</td><td>9</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$14,000.00</td><td>\$10,262.17</td></tr> <tr> <td colspan="4">Other objects of expenditure:</td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>2,300.00</td><td>2,554.17</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>1,500.00</td><td>1,265.71</td></tr> <tr> <td>Telephone and telegraph service.....</td><td></td><td>200.00</td><td>288.64</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>2,000.00</td><td>1,942.00</td></tr> <tr> <td>Total.....</td><td></td><td>20,000.00</td><td>16,312.69</td></tr> </table> |            | Employees.  | Rate.   | Estimated,<br>1921. | Expended,<br>1919. | Salaries: |  |  |  | Mycologist in charge..... per annum.. | \$3,240.00 | Number. | Number. | Chemist in charge..... do..... | 2,760.00 | 1 (pt. time) | 1 (pt. time) | Bacteriologist..... do..... | 2,520.00 | 1 | 1 | Bacteriologist..... do..... | 2,280.00 | 1 (pt. time) | 1 (pt. time) | Bacteriologist..... do..... | 2,040.00 | 1 | 1 (temp.) | Bacteriologist..... do..... | 1,620.00 | 1 | 1 | Chemist..... do..... | 2,500.00 | 1 (pt. time) | 1 (pt. time) | Chemist..... do..... | 1,800.00 | 1 | 1 (temp.) | Chemist..... do..... | 1,620.00 | 1 | 1 | Assistant in fish investigations..... do..... | 1,800.00 | 1 | 1 | Assistant in fish investigations..... do..... | 1,620.00 | 1 | 1 | Assistant in fish investigations..... do..... | 1,440.00 | 2 | 1 | Assistant in fish investigations..... do..... | 1,200.00 | 1 (temp.) | 1 | Clerk..... do..... | 1,200.00 | 1 | 1 (temp.) |  |  | 10 | 9 | Salaries..... |  | \$14,000.00 | \$10,262.17 | Other objects of expenditure: |  |  |  | Traveling expenses..... |  | 2,300.00 | 2,554.17 | Equipment and material..... |  | 1,500.00 | 1,265.71 | Telephone and telegraph service..... |  | 200.00 | 288.64 | Miscellaneous items..... |  | 2,000.00 | 1,942.00 | Total..... |  | 20,000.00 | 16,312.69 |  |  |
| Employees.  | Rate.      | Estimated,<br>1921.   | Expended,<br>1919.  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Salaries:   |            |   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Mycologist in charge..... per annum..   | \$3,240.00 | Number.   | Number.   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Chemist in charge..... do.....  | 2,760.00   | 1 (pt. time)  | 1 (pt. time)  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Bacteriologist..... do.....   | 2,520.00   | 1   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Bacteriologist..... do.....   | 2,280.00   | 1 (pt. time)  | 1 (pt. time)  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Bacteriologist..... do.....   | 2,040.00   | 1   | 1 (temp.)   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Bacteriologist..... do.....   | 1,620.00   | 1   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Chemist..... do.....  | 2,500.00   | 1 (pt. time)  | 1 (pt. time)  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Chemist..... do.....  | 1,800.00   | 1   | 1 (temp.)   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Chemist..... do.....  | 1,620.00   | 1   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Assistant in fish investigations..... do.....   | 1,800.00   | 1   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Assistant in fish investigations..... do.....   | 1,620.00   | 1   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Assistant in fish investigations..... do.....   | 1,440.00   | 2   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Assistant in fish investigations..... do.....   | 1,200.00   | 1 (temp.)   | 1   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Clerk..... do.....  | 1,200.00   | 1   | 1 (temp.)   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
|   |            | 10  | 9   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Salaries.....   |            | \$14,000.00   | \$10,262.17   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Other objects of expenditure:   |            |   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Traveling expenses.....   |            | 2,300.00  | 2,554.17  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Equipment and material.....   |            | 1,500.00  | 1,265.71  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Telephone and telegraph service.....  |            | 200.00  | 288.64  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Miscellaneous items.....  |            | 2,000.00  | 1,942.00  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Total.....  |            | 20,000.00   | 16,312.69   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| (70) For the biological investigation of food and drug products and substances used in the manufacture thereof, including investigations of the physiological effects of such products on the human organism [ <b>\$15,000</b> ] ( <i>same acts</i> ) .....   |            | 25,000.00   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1914.....   | \$20,000   | Estimate for 1915.....  | \$20,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1915.....   | 20,000     | Estimate for 1916.....  | 10,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1916.....   | 10,000     | Estimate for 1917.....  | 10,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1917.....   | 10,000     | Estimate for 1918.....  | 15,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1918.....   | 15,000     | Estimate for 1919.....  | 15,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1919.....   | 15,000     | Estimate for 1920.....  | 15,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| Appropriation for 1920.....   | 15,000     | Estimate for 1921.....  | 25,000  |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |
| NOTE.—There is an increase in this item of \$10,000. With the present appropriation of \$15,000 it has been possible to do little more than carry on chemical work to ascertain the composition of proteins in seeds and other substances. This work should be supplemented by proper feeding experiments with animals, in cooperation with the Bureau of Animal Industry, in order that the chemical work may be put on a practical basis and made applicable to the needs of the consumer. During the past year feeding experiments were conducted on a very small scale but the available funds were insufficient to carry out this work in an adequate way.   |            |   |   |                     |                    |           |  |  |  |                                       |            |         |         |                                |          |              |              |                             |          |   |   |                             |          |              |              |                             |          |   |           |                             |          |   |   |                      |          |              |              |                      |          |   |           |                      |          |   |   |   |          |   |   |   |          |   |   |   |          |   |   |   |          |           |   |                    |          |   |           |  |  |    |   |               |  |             |             |                               |  |  |  |                         |  |          |          |                             |  |          |          |                                      |  |        |        |                          |  |          |          |            |  |           |           |  |  |

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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Chemistry—Continued.*

| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| <b>Salaries:</b>                                       |            | <i>Number.</i>      | <i>Number.</i>     |
| Chemist.....per annum..                                | \$3,500.00 | 1                   | ..                 |
| Chemist.....do.....                                    | 3,240.00   | ..                  | 1                  |
| Chemist.....do.....                                    | 2,520.00   | 1                   | 1                  |
| Chemist.....do.....                                    | 2,280.00   | ..                  | 1                  |
| Chemists.....do.....                                   | 1,620.00   | 3 (2 new)           | ..                 |
| Chemists.....do.....                                   | 1,440.00   | 3 (new)             | 1                  |
| Chemists.....do.....                                   | 1,200.00   | 2                   | 2                  |
| Assistant in biological in-<br>vestigation.....do..... | 1,200.00   | 1                   | 1                  |
| Assistant in biological in-<br>vestigation.....do..... | 1,080.00   | 1 (temp.)           | ..                 |
| Expert and assistant, \$8 to \$2..per diem..           |            |                     | 2 (temp.)          |
|  |            | 12                  | 9                  |
| <b>Salaries.....</b>                                   |            | <b>\$19,000.00</b>  | <b>\$11,572.04</b> |
| <b>Other objects of expenditure:</b>                   |            |                     |                    |
| Traveling expenses.....                                |            | 1,000.00            | 221.82             |
| Equipment and material.....                            |            | 4,000.00            | 2,192.96           |
| Miscellaneous items.....                               |            | 1,000.00            | 76.73              |
| <b>Total.....</b>                                      |            | <b>25,000.00</b>    | <b>14,063.55</b>   |

- (71) For the study and improvement of methods of utilizing by-products of citrus fruits; and the investigation and development of methods for determining maturity in fruits and vegetables, in cooperation with the Bureau of Plant Industry and the Bureau of Markets (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*) ..... \$13,000.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1916..... | \$10,000 | Estimate for 1916..... | \$10,000 |
| Appropriation for 1917..... | 8,080    | Estimate for 1917..... | 8,080    |
| Appropriation for 1918..... | 13,000   | Estimate for 1918..... | 13,000   |
| Appropriation for 1919..... | 13,000   | Estimate for 1919..... | 13,000   |
| Appropriation for 1920..... | 13,000   | Estimate for 1920..... | 13,000   |
|                             |          | Estimate for 1921..... | 13,000   |

| Employees.                           | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--------------------------------------|------------|---------------------|--------------------|
| <b>Salaries:</b>                     |            | <i>Number.</i>      | <i>Number.</i>     |
| Chemist in charge.....per annum..    | \$3,240.00 | 1                   | ..                 |
| Chemist in charge.....do.....        | 3,000.00   | ..                  | 1                  |
| Chemist.....do.....                  | 2,040.00   | 1                   | 1                  |
| Chemist.....do.....                  | 1,800.00   | 1                   | 1                  |
| Assistant.....do.....                | 1,800.00   | 1 (temp.)           | 1 (temp.)          |
| Chemist aid.....do.....              | 900.00     | ..                  | 1 (pt. time)       |
|                                      |            | 4                   | 5                  |
| <b>Salaries.....</b>                 |            | <b>\$7,600.00</b>   | <b>\$7,465.00</b>  |
| <b>Other objects of expenditure:</b> |            |                     |                    |
| Traveling expenses.....              |            | 1,200.00            | 1,154.78           |
| Equipment and material.....          |            | 2,800.00            | 2,848.74           |
| Miscellaneous items.....             |            | 1,400.00            | 1,445.07           |
| <b>Total.....</b>                    |            | <b>13,000.00</b>    | <b>12,913.59</b>   |

- (72) For investigation and experiment in the utilization, for coloring purposes, of raw materials grown or produced in the United States, in cooperation with such persons, associations, or corporations as may be found necessary, including repairs, alterations, improvements, or additions to a building on the Arlington Experimental Farm **【\$100,000】** (*same acts*) ..... 99,280.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1917..... | \$50,000 | Estimate for 1917..... | \$20,000 |
| Appropriation for 1918..... | 49,400   | Estimate for 1918..... | 49,400   |
| Appropriation for 1919..... | 70,720   | Estimate for 1919..... | 70,720   |
| Appropriation for 1920..... | 100,000  | Estimate for 1920..... | 100,000  |
|                             |          | Estimate for 1921..... | 99,280   |

NOTE.—There is a decrease in the above item of \$720, due to the transfer to the statutory roll of a laboratory helper or laborer at \$720.



General Expenses, Bureau of Chemistry—Continued.

(71) For the study and improvement of methods of utilizing by-products of citrus fruits; and the investigation and development of methods for determining maturity in fruits and vegetables in cooperation with the Bureau of Plant Industry and the Bureau of Markets (acts June 8, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1) ----- \$13,000.00

[illegible]

(72) For investigation and experiment in the utilization for coloring purposes of raw materials grown or produced in the United States, in cooperation with such persons, associations, or corporations as may be found necessary, including repairs, alterations, improvements, or additions to a building on the Arlington Experimental Farm (\$100,000) (same acts) ----- 99,280.00

NOTES.—There is a decrease in the above item of \$750, due to the transfer to the statutory roll of a laborer's helper or laborer at \$750.

## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-------------------------|---|---|
| <i>General Expenses, Bureau of Chemistry—Continued.</i>   |            |                  |                         |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.         |   |   |
| Salaries:   |            | Number.          | Number.                 |   |   |
| Chemist in charge.....per annum..   | \$3,500.00 | 1                | 1                       |   |   |
| Chemist.....do.....   | 2,400.00   | ..               | 1 (temp.)               |   |   |
| Chemists.....do.....  | 2,280.00   | 3                | 3 (1 pt. time)          |   |   |
| Chemists.....do.....  | 2,250.00   | ..               | 1 (temp.)               |   |   |
| Chemists.....do.....  | 2,040.00   | 3                | 6 (3 temp.)             |   |   |
| Chemists.....do.....  | 1,800.00   | 10 (17 new)      | 3 (1 temp.; 1 pt. time) |   |   |
| Chemists.....do.....  | 1,620.00   | 8 (6 new)        | 2                       |   |   |
| Chemists.....do.....  | 1,440.00   | 3 (new)          | 1 (temp.)               |   |   |
| Laboratory technician.....do.....   | 2,040.00   | 1                | 1                       |   |   |
| Specialist in photometric investigation.....do.....   | 2,000.00   | 1 (temp.)        | ..                      |   |   |
| Draftsman.....do.....   | 1,800.00   | ..               | 1 (temp.)               |   |   |
| Scientific assistant.....do.....  | 1,800.00   | 1                | ..                      |   |   |
| Inspector of construction.....do.....   | 1,600.00   | ..               | 1 (temp.)               |   |   |
| Clerks.....do.....  | 1,100.00   | ..               | 5 (4 temp.; 1 pt. time) |   |   |
| Multigraph operator.....do.....   | 1,100.00   | ..               | 1 (pt. time)            |   |   |
| Multigraph operator.....do.....   | 1,000.00   | ..               | 1 (pt. time)            |   |   |
| Wages:  |            |                  |                         |   |   |
| Laborer.....do.....   | 720.00     | ..               | 1                       |   |   |
| Mechanic.....do.....  | 1,400.00   | ..               | 1 (temp.)               |   |   |
|   |            | 31               | 30                      |   |   |
| Salaries.....   |            | \$57,000.00      | \$22,304.57             |   |   |
| Wages.....  |            |                  | 1,350.00                |   |   |
| Other objects of expenditure:   |            |                  |                         |   |   |
| Traveling expenses.....   |            | 2,000.00         | 1,061.78                |   |   |
| Equipment and material.....   |            | 35,000.00        | 14,459.32               |   |   |
| Miscellaneous items.....  |            | 4,280.00         | 114.48                  |   |   |
| Construction work.....  |            |                  | 1 31,020.00             |   |   |
| Total.....  |            | 99,280.00        | 70,310.15               |   |   |

<sup>1</sup> This construction work consisted of additions to concrete building at Arlington Farm, Va., for use as color experimental plant.

- (73) For the investigation and development of methods for the manufacture of table sirup and of methods for the manufacture of sweet sirups by the utilization of new agricultural sources (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*) ..... \$12,000.00

|                             |         |                        |         |
|-----------------------------|---------|------------------------|---------|
| Appropriation for 1918..... | \$7,000 | Estimate for 1918..... | \$7,000 |
| Appropriation for 1919..... | 7,000   | Estimate for 1919..... | 7,000   |
| Appropriation for 1920..... | 12,000  | Estimate for 1920..... | 12,000  |
|                             |         | Estimate for 1921..... | 12,000  |

| Employees.                           | Rate.      | Estimated, 1921. | Expended, 1919. |
|--------------------------------------|------------|------------------|-----------------|
| Salaries:                            |            | Number.          | Number.         |
| Chemist in charge.....per annum..    | \$4,000.00 | ..               | 1 (pt. time)    |
| Chemist.....do.....                  | 2,280.00   | ..               | 1 (pt. time)    |
| Chemists.....do.....                 | 1,800.00   | 2 (new)          | 1 (pt. time)    |
| Chemists.....do.....                 | 1,440.00   | 2 (1 new)        | ..              |
| Chemist.....per diem.....            | 10.00      | 1 (temp.)        | 1 (temp.)       |
| Scientific assistant.....per annum.. | 1,620.00   | 1                | ..              |
|                                      |            | 6                | 4               |
| Salaries.....                        |            | \$8,600.00       | \$4,689.33      |
| Other objects of expenditure:        |            |                  |                 |
| Traveling expenses.....              |            | 1,200.00         | 989.82          |
| Equipment and material.....          |            | 1,800.00         | 434.46          |
| Miscellaneous items.....             |            | 400.00           | 761.66          |
| Total.....                           |            | 12,000.00        | 6,875.27        |

General Expenses, Bureau of Chemistry—Continued.

[illegible]

<sup>1</sup> This reproduction work consisted of additional to complete printing at Arlington Farm, Va., for use as color experimental plant.

(73) For the investigation and development of methods for the manufacture of table syrup and of methods for the manufacture of sweet syrups by the utilization of new agricultural sources (acts June 8, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 323, 324, sec. 1) ----- \$212,000.00

|                        |         |                   |         |
|------------------------|---------|-------------------|---------|
| Appropriation for 1974 | \$7,000 | Estimate for 1974 | \$7,000 |
| Appropriation for 1975 | 7,000   | Estimate for 1975 | 7,000   |
| Appropriation for 1976 | 12,000  | Estimate for 1976 | 12,000  |
| Appropriation for 1977 | 12,000  | Estimate for 1977 | 12,000  |
| Appropriation for 1978 | 18,000  | Estimate for 1978 | 18,000  |
| Appropriation for 1979 | 27,000  | Estimate for 1979 | 27,000  |

[illegible]



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>General Expenses, Bureau of Chemistry—Continued.</i>   |   |   |
| (74) For enabling the Secretary of Agriculture to carry into effect the provisions of the act of June 30, 1906, entitled "An act for preventing the manufacture, sale, or transportation of adulterated, or misbranded, or poisonous, or deleterious foods, drugs, medicines, and liquors, and for regulating traffic therein, and for other purposes," in the city of Washington and elsewhere, including chemical apparatus, chemicals and supplies, repairs to apparatus, gas, electric current, official traveling expenses, telegraph and telephone service, express and freight charges, and all other expenses, employing such assistants, clerks, and other persons as may be considered necessary for the purposes named, and rent outside of the District of Columbia; and to cooperate with associations and scientific societies in the revision of the United States Pharmacopœia and development of methods of analysis <b>["\$620,221"]</b> (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1)..... | \$605,081.00  |   |
| Appropriation for 1911.....   | \$702,340   |   |
| Appropriation for 1912.....   | 610,110   |   |
| Appropriation for 1913.....   | 625,000   |   |
| Appropriation for 1914.....   | 675,000   |   |
| Appropriation for 1915.....   | 644,301   |   |
| Appropriation for 1916.....   | 635,161   |   |
| Appropriation for 1917.....   | 632,951   |   |
| Appropriation for 1918.....   | 623,521   |   |
| Appropriation for 1919.....   | 589,081   |   |
| Appropriation for 1920.....   | 620,221   |   |
| Estimate for 1912.....  | \$610,110   |   |
| Estimate for 1913.....  | 625,000   |   |
| Estimate for 1914.....  | 743,000   |   |
| Estimate for 1915.....  | 654,301   |   |
| Estimate for 1916.....  | 645,161   |   |
| Estimate for 1917.....  | 657,951   |   |
| Estimate for 1918.....  | 623,521   |   |
| Estimate for 1919.....  | 589,081   |   |
| Estimate for 1920.....  | 620,221   |   |
| Estimate for 1921.....  | 605,081   |   |

NOTE.—There is a decrease in the above item of \$15,140, due to transfers to the statutory roll of this bureau aggregating \$12,980 and transfers to the statutory roll of the Office of the Secretary aggregating \$2,160.

| Employees.                                     | Rate.      | Estimated, 1921.        | Expended, 1919.          |
|--|------------|-------------------------|--------------------------|
| <b>Salaries:</b>                               |            | <i>Number.</i>          | <i>Number.</i>           |
| Assistant chief.....per annum..                | \$4,500.00 | 1                       | 1                        |
| Assistant chief.....do.....                    | 4,000.00   | 1                       | 1                        |
| Chief of district.....do.....                  | 4,000.00   | 1                       | 1                        |
| Chief of district.....do.....                  | 3,780.00   | 1                       | 1                        |
| Chief of district.....do.....                  | 3,500.00   | 1                       | 1                        |
| Chief of district.....do.....                  | 3,240.00   | 1                       | 1                        |
| Chemists in charge of laboratories.....do..... | 4,000.00   | 2                       | 3 (1 temp.)              |
| Chemists in charge of laboratories.....do..... | 3,500.00   | 2                       | 2                        |
| Chemists in charge of laboratories.....do..... | 3,240.00   | 2 (1 pt.time)           | 2 (1 pt.time)            |
| Chemists in charge of laboratories.....do..... | 3,000.00   | 3 (1 pt.time)           | 3 (1 pt.time)            |
| Chemists in charge of laboratories.....do..... | 2,760.00   | 1                       | 3 (1 temp; 1 pt. time)   |
| Chemist in charge of laboratories.....do.....  | 2,520.00   | 1                       | 1 (pt. time)             |
| Chief of station.....do.....                   | 3,250.00   | 1                       | 1                        |
| Chief of station.....do.....                   | 3,240.00   | 1                       | 1                        |
| Chief of station.....do.....                   | 3,000.00   | 1                       | 1                        |
| Chief of station.....do.....                   | 2,760.00   | 3                       | 4 (1 temp.; 1 pt. time)  |
| Chief of station.....do.....                   | 2,520.00   | 5                       | 4 (1 temp)               |
| Chief of station.....do.....                   | 2,300.00   | 1                       | 1                        |
| Chief of station.....do.....                   | 2,280.00   | 2                       | 3 (1 pt.time)            |
| Chief of station.....do.....                   | 2,040.00   | 1                       | 2 (1 pt.time)            |
| Chemist.....do.....                            | 4,000.00   | 1                       | 1                        |
| Chemist.....do.....                            | 3,240.00   | 1                       | 1                        |
| Chemists.....do.....                           | 3,000.00   | 3                       | 7 (1 pt.time; 2 temp.)   |
| Chemists.....do.....                           | 2,760.00   | 7                       | 7 (1 pt.time)            |
| Chemists.....do.....                           | 2,520.00   | 9                       | 6 (1 temp.)              |
| Chemist.....do.....                            | 2,400.00   | 1                       | 1                        |
| Chemists.....do.....                           | 2,280.00   | 17                      | 17 (4 pt.time; 1 temp.)  |
| Chemists.....do.....                           | 2,040.00   | 27                      | 38 (3 pt. time; 4 temp.) |
| Chemist.....do.....                            | 2,000.00   | 1 (temp.)               | 1 (temp.)                |
| Chemists.....do.....                           | 1,800.00   | 25 (2 pt.time; 5 temp.) | 31 (1 pt.time; 12 temp.) |
| Chemists.....do.....                           | 1,740.00   | 3                       | 3                        |
| Chemists.....do.....                           | 1,620.00   | 20 (2 pt.time)          | 25 (2 pt. time; 6 temp.) |
| Chemists.....do.....                           | 1,600.00   | 1                       | 1                        |
| Chemists.....do.....                           | 1,560.00   | 1                       | 2 (temp.)                |
| Chemist.....do.....                            | 1,500.00   | 1                       | 1                        |
| Chemists.....do.....                           | 1,440.00   | 25                      | 31 (1 pt.time; 10 temp.) |



Estimates of appropriations required for the service of the fiscal year ending June 30, 1931—Continued.

| General object (title of appropriation), date of act, reference to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1930. |
|---|---|---|
|---|---|---|

General Expenses, Bureau of Chemistry—Continued.

(74) For enabling the Secretary of Agriculture to carry into effect the provisions of the act of June 30, 1906, entitled "An act for preventing the manufacture, sale, or transportation of adulterated, or misbranded, or poisonous, or deleterious foods, drugs, medicines, and liquors, and for regulating traffic therein, and for other purposes," in the city of Washington and elsewhere, including chemical apparatus, chemicals and supplies, repairs to apparatus, gas, electric current, official traveling expenses, telephone and telegraph service, express and freight charges, and all other expenses, employing such assistants, clerks, and other persons as may be considered necessary for the purposes named, and rent outside of the District of Columbia; and to cooperate with associations and scientific societies in the revision of the United States Pharmacopoeia and development of methods of analysis [§ 2620, 231] (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1) ----- \$602,081.00

|                             |           |
|-----------------------------|-----------|
| Appropriation for 1920..... | \$202,231 |
| Appropriation for 1919..... | 250,081   |
| Appropriation for 1918..... | 253,254   |
| Appropriation for 1917..... | 253,251   |
| Appropriation for 1916..... | 232,951   |
| Appropriation for 1915..... | 232,161   |
| Appropriation for 1914..... | 244,301   |
| Appropriation for 1913..... | 275,000   |
| Appropriation for 1912..... | 252,000   |
| Appropriation for 1911..... | 270,340   |
| Estimate for 1931.....      | 270,340   |
| Estimate for 1930.....      | 270,340   |
| Estimate for 1929.....      | 270,340   |
| Estimate for 1928.....      | 270,340   |
| Estimate for 1927.....      | 270,340   |
| Estimate for 1926.....      | 270,340   |
| Estimate for 1925.....      | 270,340   |
| Estimate for 1924.....      | 270,340   |
| Estimate for 1923.....      | 270,340   |
| Estimate for 1922.....      | 270,340   |
| Estimate for 1921.....      | 270,340   |
| Estimate for 1920.....      | 270,340   |

NOTE.—There is a decrease in the above item of \$15,140, due to transfers to the statutory roll of this bureau aggregating \$12,980 and transfers to the statutory roll of the Office of the Secretary aggregating \$2,160.

| Employees                               | Rate       | Estimated, 1931, Number | Estimated, 1930, Number |
|---|------------|-------------------------|-------------------------|
| Salaries:                               |            |                         |                         |
| Assistant chief.....                    | \$4,300.00 | 1                       | 1                       |
| Assistant chief.....                    | 4,000.00   | 1                       | 1                       |
| Chief of district.....                  | 4,000.00   | 1                       | 1                       |
| Chief of district.....                  | 3,750.00   | 1                       | 1                       |
| Chief of district.....                  | 3,500.00   | 1                       | 1                       |
| Chief of district.....                  | 3,250.00   | 1                       | 1                       |
| Chief of district.....                  | 3,000.00   | 1                       | 1                       |
| Chemists in charge of laboratories..... | 4,000.00   | 2                       | 2                       |
| Chemists in charge of laboratories..... | 3,500.00   | 2                       | 2                       |
| Chemists in charge of laboratories..... | 3,250.00   | 2                       | 2                       |
| Chemists in charge of laboratories..... | 3,000.00   | 2                       | 2                       |
| Chemists in charge of laboratories..... | 2,750.00   | 1                       | 1                       |
| Chemist in charge of laboratories.....  | 2,500.00   | 1                       | 1                       |
| Chief of station.....                   | 3,250.00   | 1                       | 1                       |
| Chief of station.....                   | 3,000.00   | 1                       | 1                       |
| Chief of station.....                   | 2,750.00   | 1                       | 1                       |
| Chief of station.....                   | 2,500.00   | 1                       | 1                       |
| Chief of station.....                   | 2,250.00   | 1                       | 1                       |
| Chief of station.....                   | 2,000.00   | 1                       | 1                       |
| Chief of station.....                   | 1,750.00   | 1                       | 1                       |
| Chemists.....                           | 3,000.00   | 3                       | 3                       |
| Chemists.....                           | 2,750.00   | 7                       | 7                       |
| Chemists.....                           | 2,500.00   | 9                       | 9                       |
| Chemists.....                           | 2,250.00   | 1                       | 1                       |
| Chemists.....                           | 2,000.00   | 17                      | 17                      |
| Chemists.....                           | 1,750.00   | 32                      | 32                      |
| Chemists.....                           | 1,500.00   | 32                      | 32                      |
| Chemists.....                           | 1,250.00   | 32                      | 32                      |
| Chemists.....                           | 1,000.00   | 32                      | 32                      |
| Chemists.....                           | 750.00     | 32                      | 32                      |
| Chemists.....                           | 500.00     | 32                      | 32                      |
| Chemists.....                           | 250.00     | 32                      | 32                      |
| Chemists.....                           | 100.00     | 32                      | 32                      |
| Chemists.....                           | 50.00      | 32                      | 32                      |
| Chemists.....                           | 25.00      | 32                      | 32                      |
| Chemists.....                           | 12.50      | 32                      | 32                      |
| Chemists.....                           | 6.25       | 32                      | 32                      |
| Chemists.....                           | 3.12       | 32                      | 32                      |
| Chemists.....                           | 1.56       | 32                      | 32                      |
| Chemists.....                           | 0.78       | 32                      | 32                      |
| Chemists.....                           | 0.39       | 32                      | 32                      |
| Chemists.....                           | 0.19       | 32                      | 32                      |
| Chemists.....                           | 0.09       | 32                      | 32                      |
| Chemists.....                           | 0.05       | 32                      | 32                      |
| Chemists.....                           | 0.02       | 32                      | 32                      |
| Chemists.....                           | 0.01       | 32                      | 32                      |

## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            |                        |                           | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|------------------------|---------------------------|---|---|
| <i>General Expenses, Bureau of Chemistry—Continued.</i>  |            |                        |                           |   |   |
| Employees.   | Rate.      | Estimated, 1921.       | Expended, 1919.           |   |   |
| <b>Salaries—Continued:</b>   |            | <i>Number.</i>         | <i>Number.</i>            |   |   |
| Chemists.....do.....   | \$1,400.00 | 3                      | 3                         |   |   |
| Chemist.....do.....  | 1,300.00   | ..                     | 1                         |   |   |
| Chemists.....do.....   | 1,200.00   | 5 (3 temp.)            | 6 (3 temp.; 1 pt. time)   |   |   |
| Bacteriologist.....do.....   | 2,520.00   | 1                      | 1                         |   |   |
| Bacteriologists.....do.....  | 2,280.00   | 2 (1 pt. time)         | 2 (1 pt. time)            |   |   |
| Bacteriologist.....do.....   | 1,740.00   | ..                     | 1 (temp.)                 |   |   |
| Bacteriologist.....do.....   | 1,620.00   | 1                      | 1                         |   |   |
| Bacteriologists.....do.....  | 1,440.00   | 2 (1 temp.)            | ..                        |   |   |
| Microanalyst.....do.....   | 2,520.00   | 1                      | 1                         |   |   |
| Microanalyst.....do.....   | 2,040.00   | 1                      | 1 (pt. time)              |   |   |
| Microanalysts.....do.....  | 1,620.00   | 3                      | 2                         |   |   |
| Microanalyst.....do.....   | 1,440.00   | ..                     | 1                         |   |   |
| Administrative assistant.....do.....   | 2,500.00   | ..                     | 1 (pt. time)              |   |   |
| Inspector.....do.....  | 2,000.00   | 1                      | 1                         |   |   |
| Chemists' aid.....do.....  | 1,000.00   | 1                      | ..                        |   |   |
| Samplers.....do.....   | 1,200.00   | ..                     | 2 (1 temp.)               |   |   |
| Laboratory helper.....do.....  | 1,000.00   | ..                     | 1                         |   |   |
| Clerk.....do.....  | 1,800.00   | ..                     | 1                         |   |   |
| Clerks.....do.....   | 1,600.00   | ..                     | 2 (temp.)                 |   |   |
| Clerks.....do.....   | 1,400.00   | ..                     | 3 (1 temp.; 2 pt. time)   |   |   |
| Clerks.....do.....   | 1,200.00   | ..                     | 48 (47 temp.)             |   |   |
| Clerk.....do.....  | 1,140.00   | ..                     | 1                         |   |   |
| Clerks.....do.....   | 1,100.00   | ..                     | 6 (2 temp.; 3 pt. time)   |   |   |
| Clerks.....do.....   | 1,000.00   | ..                     | 2 (temp.)                 |   |   |
| Mechanical draftsman.....do.....   | 1,800.00   | 1                      | ..                        |   |   |
| Mechanical draftsman.....do.....   | 1,620.00   | ..                     | 1                         |   |   |
| Mechanical assistant.....do.....   | 1,400.00   | ..                     | 1 (temp.)                 |   |   |
| Multigraph operator.....do.....  | 1,100.00   | ..                     | 1 (pt. time)              |   |   |
| Multigraph operators.....do.....   | 1,000.00   | ..                     | 2 (1 temp.; 1 pt. time)   |   |   |
| Photostat operators.....do.....  | 1,000.00   | ..                     | 2 (1 temp.; 1 pt. time)   |   |   |
| Chemists' aids, samplers, laboratory helper, watchmen, messengers, and charwomen, \$960 to \$240.....do.....   |            | 2                      | 25 (15 temp.; 3 pt. time) |   |   |
| Collaborators, \$9 per diem to \$300.....do.....   |            | 72 (71 temp.)          | 75 (74 temp.)             |   |   |
| Specialists, experts, and scientific assistants, \$12 to \$2.50.....per diem.....  |            | 7 (temp.)              | 20 (temp.)                |   |   |
| <b>Wages:</b>  |            |                        |                           |   |   |
| Mechanics.....per annum.....   | 1,200.00   | ..                     | 1 (temp.)                 |   |   |
| Mechanics.....do.....  | 1,000.00   | ..                     | 1 (temp.)                 |   |   |
| Firemen.....do.....  | 1,080.00   | 2                      | ..                        |   |   |
| Laborers, \$900 to \$660.....do.....   |            | ..                     | 9 (5 temp.)               |   |   |
| Miscellaneous temporary labor, \$4.80 to \$2.50.....per diem.....  |            | ..                     | 6                         |   |   |
|  |            | 273                    | 437                       |   |   |
| Salaries.....  |            | \$379,380.00           | \$384,283.12              |   |   |
| Wages.....   |            | 3,000.00               | 4,488.13                  |   |   |
| <b>Other objects of expenditure:</b>   |            |                        |                           |   |   |
| Traveling expenses.....  |            | 82,000.00              | 82,882.00                 |   |   |
| Equipment and material.....  |            | 95,000.00              | 78,468.79                 |   |   |
| Telephone and telegraph service.....   |            | 10,000.00              | 8,301.70                  |   |   |
| Miscellaneous items.....   |            | 35,701.00              | 26,156.78                 |   |   |
| <b>Total.....</b>  |            | <b>605,081.00</b>      | <b>584,580.52</b>         |   |   |
| (75) For investigating the grading, weighing, handling, transportation, and uses of naval stores, the preparation of definite type samples thereof, and for the demonstration of improved methods or processes of preparing naval stores, in cooperation with individuals and companies, including the employment of necessary persons and means in the city of Washington and elsewhere ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1</i> )..... |            |                        |                           | \$10,000.00   |   |
| Appropriation for 1918.....  | \$10,000   | Estimate for 1918..... | \$10,000                  |   |   |
| Appropriation for 1919.....  | 10,000     | Estimate for 1919..... | 10,000                    |   |   |
| Appropriation for 1920.....  | 10,000     | Estimate for 1920..... | 10,000                    |   |   |
|  |            | Estimate for 1921..... | 10,000                    |   |   |



Estimates of appropriations required for the service of the fiscal year ending June 30, 1931—Continued.

General object (title of appropriation), date of act, reference to statute at large, or to Revised Statutes, and estimated amount required for each detailed object.

Total amount to be appropriated under each head of appropriation.

Amount appropriated for the fiscal year ending June 30, 1930.

General Expenses, Bureau of Chemistry—Continued.

| Employees   | Rate         | Estimated, 1931 | Expended, 1930 |
|---|--------------|-----------------|----------------|
| Salaries—Continued:   |              |                 |                |
| Chemists  | \$1,400.00   | 3               | 3              |
| Chemists  | 1,300.00     | 1               | 1              |
| Chemists  | 1,200.00     | 3 (3 temp.)     | 3 (3 temp.)    |
| Bacteriologists   | 2,500.00     | 1               | 1              |
| Bacteriologists   | 2,500.00     | 2 (1 pt. time)  | 2 (1 pt. time) |
| Bacteriologists   | 1,750.00     | 1 (temp.)       | 1 (temp.)      |
| Bacteriologists   | 1,500.00     | 1               | 1              |
| Bacteriologists   | 1,415.00     | 2 (1 temp.)     | 2 (1 temp.)    |
| Microanalysts   | 2,500.00     | 1               | 1              |
| Microanalysts   | 2,000.00     | 1 (pt. time)    | 1 (pt. time)   |
| Microanalysts   | 1,850.00     | 3               | 3              |
| Microanalysts   | 1,410.00     | 1               | 1              |
| Administrative assistant  | 2,500.00     | 1 (pt. time)    | 1 (pt. time)   |
| Inspector   | 2,000.00     | 1               | 1              |
| Chemists' aid   | 1,000.00     | 1               | 1              |
| Samplers  | 1,500.00     | 3 (1 temp.)     | 3 (1 temp.)    |
| Laboratory helper   | 1,000.00     | 1               | 1              |
| Clerk   | 1,500.00     | 1               | 1              |
| Clerks  | 1,000.00     | 3 (1 temp.)     | 3 (1 temp.)    |
| Clerks  | 1,400.00     | 3 (pt. time)    | 3 (pt. time)   |
| Clerks  | 1,200.00     | 1               | 1              |
| Clerks  | 1,100.00     | 8 (2 temp.)     | 8 (2 temp.)    |
| Clerks  | 1,000.00     | 3 (pt. time)    | 3 (pt. time)   |
| Mechanical draftsman  | 1,500.00     | 1               | 1              |
| Mechanical draftsman  | 1,000.00     | 1 (temp.)       | 1 (temp.)      |
| Mechanical assistant  | 1,400.00     | 1 (pt. time)    | 1 (pt. time)   |
| Mechanical operator   | 1,000.00     | 2 (1 temp.)     | 2 (1 temp.)    |
| Mechanical operators  | 1,000.00     | 2 (1 temp.)     | 2 (1 temp.)    |
| Protectors of operators   | 1,000.00     | 1 (pt. time)    | 1 (pt. time)   |
| Chemists' aids, samplers, laboratory helper, watchmen, messengers and chauffeurs \$200 to \$250 |              | 3               | 3              |
| Collaborators \$4 per diem to \$300   |              | 22 (21 temp.)   | 22 (21 temp.)  |
| Specimens, experts and scientific assistants \$12 to \$25.00 per diem                           |              | 7 (temp.)       | 7 (temp.)      |
| Wages:  |              |                 |                |
| Mechanics per annum   | 1,000.00     | 1 (temp.)       | 1 (temp.)      |
| Mechanics   | 1,000.00     | 1 (temp.)       | 1 (temp.)      |
| Fireman   | 1,000.00     | 3 (temp.)       | 3 (temp.)      |
| Laborers \$2.50 to \$3.00   |              | 6               | 6              |
| Miscellaneous temporary labor \$1.50 to \$2.50 per diem   |              | 437             | 437            |
| Salaries  | \$370,000.00 | 3,000.00        | 3,000.00       |
| Oil or other expenses   | 4,422.13     |                 |                |
| Travel expenses   | 25,000.00    |                 |                |
| Telephone and telegraph service   | 10,000.00    |                 |                |
| Miscellaneous items   | 35,700.00    |                 |                |
| Total   | 424,200.00   |                 |                |

(72) For investigating the grinding, weighing, handling, transportation and use of naval stores the preparation of definite type samples thereof, and for the demonstration of improved methods or processes of preparing naval stores in cooperation with individuals and companies, including the employment of necessary persons and means in the city of Washington and elsewhere (acts June 8, 1905, vol. 8, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 762-770, sec. 1; July 24, 1913, vol. 41, pp. 923, 924, sec. 1)

\$10,000.00

|                        |          |
|------------------------|----------|
| Appropriation for 1914 | \$10,000 |
| Appropriation for 1915 | 10,000   |
| Appropriation for 1916 | 10,000   |
| Appropriation for 1917 | 10,000   |
| Appropriation for 1918 | 10,000   |
| Appropriation for 1919 | 10,000   |
| Appropriation for 1920 | 10,000   |
| Appropriation for 1921 | 10,000   |
| Appropriation for 1922 | 10,000   |
| Appropriation for 1923 | 10,000   |
| Appropriation for 1924 | 10,000   |
| Appropriation for 1925 | 10,000   |
| Appropriation for 1926 | 10,000   |
| Appropriation for 1927 | 10,000   |
| Appropriation for 1928 | 10,000   |
| Appropriation for 1929 | 10,000   |
| Appropriation for 1930 | 10,000   |
| Appropriation for 1931 | 10,000   |

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Chemistry—Continued.*

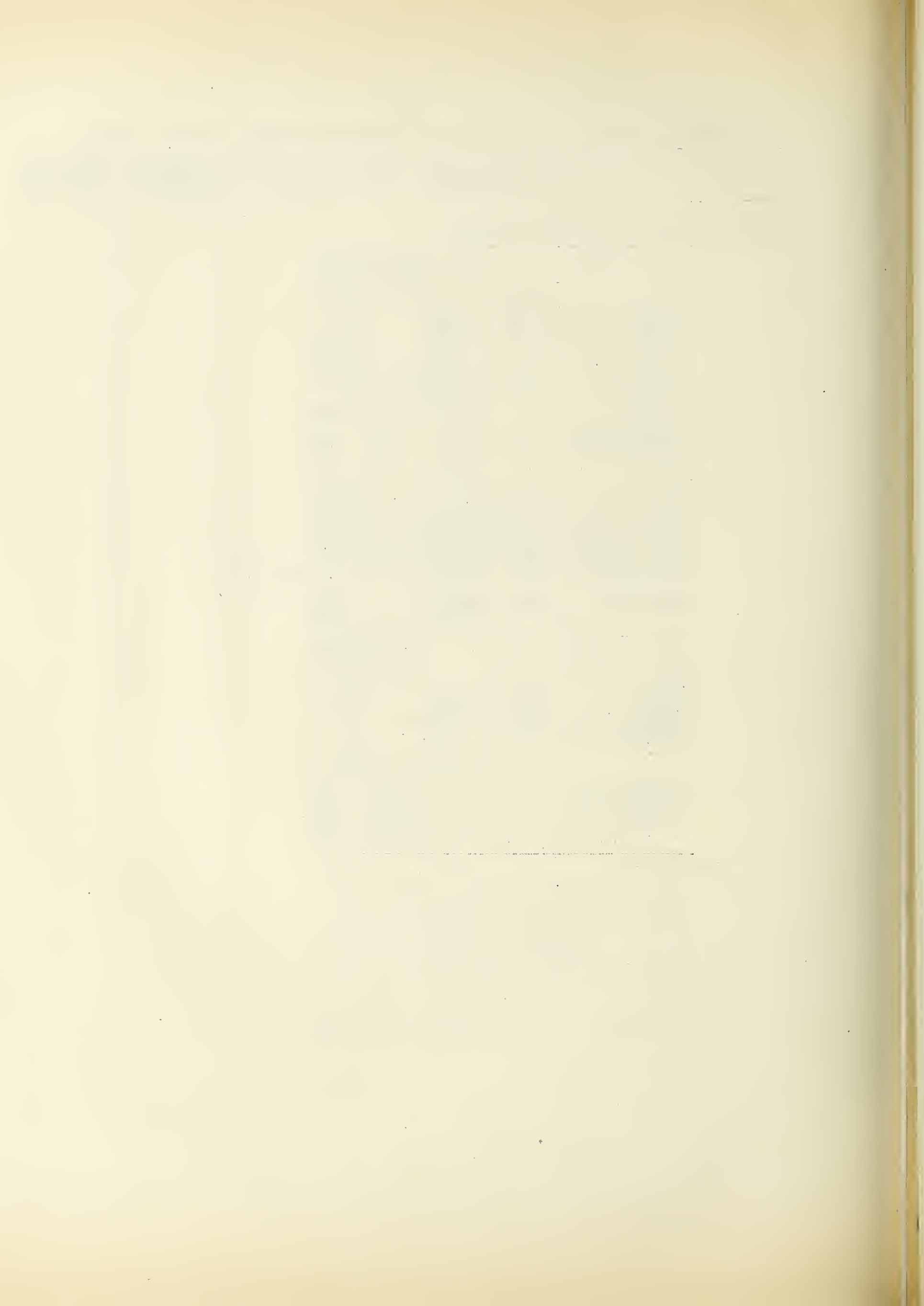
| Employees.                           | Rate.      | Estimated,<br>1921. | Expended,<br>1919.         |
|--------------------------------------|------------|---------------------|----------------------------|
| <b>Salaries:</b>                     |            | <i>Number.</i>      | <i>Number.</i>             |
| Chemist in charge.....per annum..    | \$3,780.00 | 1 (pt. time)        | 1 (pt. time)               |
| Chemist.....do.....                  | 1,800.00   | 1                   | ..                         |
| Chemist.....do.....                  | 1,740.00   | ..                  | 1                          |
| Chemist.....do.....                  | 1,620.00   | ..                  | 1 (temp.)                  |
| Chemist.....do.....                  | 1,600.00   | 1                   | 1 (temp.)                  |
| Chemists.....do.....                 | 1,440.00   | 1                   | 3 (2 pt. time;<br>1 temp.) |
| Chemist aid.....do.....              | 720.00     | 1 (temp.)           | 1                          |
| Photostat operator.....do.....       | 1,000.00   | ..                  | 1 (pt. time)               |
| Chemists.....per diem..              | 5.00       | 1 (temp.)           | 1 (temp.)                  |
|                                      |            | 6                   | 10                         |
| Salaries.....                        |            | \$6,500.00          | \$6,700.64                 |
| <b>Other objects of expenditure:</b> |            |                     |                            |
| Traveling expenses.....              |            | 1,700.00            | 1,351.54                   |
| Equipment and material.....          |            | 1,400.00            | 855.98                     |
| Miscellaneous items.....             |            | 400.00              | 31.03                      |
| <b>Total.....</b>                    |            | <b>10,000.00</b>    | <b>8,939.19</b>            |

- (76) For the investigation and development of methods of manufacturing insecticides and fungicides, and for investigating chemical problems relating to the composition, action, and application of insecticides and fungicides (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*) ..... \$25,000.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1919..... | \$25,000 | Estimate for 1919..... | \$25,000 |
| Appropriation for 1920..... | 25,000   | Estimate for 1920..... | 25,000   |
|                             |          | Estimate for 1921..... | 25,000   |

| Employees.                           | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--------------------------------------|------------|---------------------|--------------------|
| <b>Salaries:</b>                     |            | <i>Number.</i>      | <i>Number.</i>     |
| Chemist.....per annum..              | \$3,000.00 | ..                  | 1 (pt. time)       |
| Chemist.....do.....                  | 2,520.00   | 1                   | 1 (pt. time)       |
| Chemist.....do.....                  | 1,800.00   | 1                   | ..                 |
| Chemists.....do.....                 | 1,620.00   | 3 (2 new)           | 1                  |
| Chemists.....do.....                 | 1,440.00   | 5 (3 new)           | 2                  |
| Chemist aid.....do.....              | 840.00     | ..                  | 1 (pt. time)       |
| Clerk.....do.....                    | 1,800.00   | ..                  | 1 (pt. time)       |
| Painter.....per diem..               | 5.25       | ..                  | 1 (temp.)          |
|                                      |            | 10                  | 8                  |
| Salaries.....                        |            | \$16,380.00         | \$6,555.00         |
| <b>Other objects of expenditure:</b> |            |                     |                    |
| Stationery.....                      |            | 3,500.00            | 311.08             |
| Traveling expenses.....              |            | 4,000.00            | 4,920.94           |
| Telephone and telegraph service..... |            | 1,120.00            | 262.10             |
| <b>Total.....</b>                    |            | <b>25,000.00</b>    | <b>12,049.12</b>   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Chemistry—Continued.

- (77) For the study and improvement of methods of dehydrating materials used for food, in cooperation with such persons, associations, or corporations as may be found necessary, and to disseminate information as to the value and suitability of such products for food **["\$50,000"]** (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; July 24, 1919, vol. 41, pp. 253, 254, sec. 1*) ----- \$23,500. 00

Appropriation for 1920..... \$50,000 | Estimate for 1920..... \$250,000  
 Estimate for 1921..... 23,500

NOTE.—There is an apparent decrease in the above item of \$26,500, but taking into consideration the transfer to the statutory roll of 1 clerk at \$1,500, the actual decrease is \$25,000. In addition 1 assistant, \$2,250, has been transferred to the statutory roll, Division of Publications, making the net decrease in the item \$22,750. It is believed that with this amount the Bureau of Chemistry will be able to conduct such dehydration investigations as may be necessary during the fiscal year 1921.

| Employees.  | Rate.      | Estimated 1921. | Expended, 1919. |
|---|------------|-----------------|-----------------|
| Salaries:   |            | <i>Number.</i>  | <i>Number.</i>  |
| Dehydration expert.....per annum..  | \$3,900.00 | ..              | ..              |
| Chemist in charge.....do.....   | 2,760.00   | 1 (pt. time)    | ..              |
| Investigators.....do.....   | 2,500.00   | 1               | ..              |
| Investigators.....do.....   | 2,040.00   | 1               | 2               |
| Chemist.....do.....   | 2,760.00   | ..              | 1 (pt. time)    |
| Chemists.....do.....  | 2,280.00   | ..              | 3 (pt. time)    |
| Chemist.....do.....   | 2,040.00   | ..              | 1 (pt. time)    |
| Chemists.....do.....  | 1,440.00   | 2               | ..              |
| Chemist.....do.....   | 1,200.00   | ..              | 1               |
| Engineer.....do.....  | 1,800.00   | 1               | 1               |
| Bacteriologist.....do.....  | 1,800.00   | 1 (pt. time)    | ..              |
| Assistants.....do.....  | 1,200.00   | ..              | 2               |
| Clerk.....do.....   | 1,500.00   | ..              | 1               |
| Expert, investigators, and assistants, \$10 per diem to \$900.....do..... | ..         | ..              | 9 (6 temp.)     |
|   |            | 7               | 22              |
| Salaries.....   |            | \$11,500.00     | \$15,097.67     |
| Other objects of expenditure:   |            |                 |                 |
| Traveling expenses.....   |            | 2,500.00        | 5,389.67        |
| Equipment and material.....   |            | 7,000.00        | 128,056.48      |
| Miscellaneous items.....  |            | 2,500.00        | 9,117.82        |
| Total.....  |            | 23,500.00       | 157,661.64      |

- (78) For the investigation and development of methods of utilizing wool-scouring waste (*same acts*) ----- 9,000. 00

Appropriation for 1920..... \$9,000 | Estimate for 1920..... \$9,000  
 Estimate for 1921..... 9,000

| Employees.                        | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|-----------------------------------|------------|------------------|------------------------------|
| Salaries:                         |            | <i>Number.</i>   | <i>Number.</i>               |
| Chemist in charge.....per annum.. | \$3,780.00 | 1 (pt. time)     | ..                           |
| Chemists.....do.....              | 2,520.00   | 1 (pt. time)     | ..                           |
| Chemists.....do.....              | 1,620.00   | 2                | ..                           |
| Chemists.....do.....              | 1,440.00   | 1 (pt. time)     | ..                           |
|                                   |            | 5                | ..                           |
| Salaries.....                     |            | \$7,000.00       | ..                           |
| Other objects of expenditure:     |            |                  |                              |
| Traveling expenses.....           |            | 1,000.00         | ..                           |
| Equipment and material.....       |            | 800.00           | ..                           |
| Miscellaneous items.....          |            | 200.00           | ..                           |
| Total.....                        |            | 9,000.00         | ..                           |

<sup>1</sup> No appropriation for the fiscal year 1919.

- (79) For investigating the utilization of agricultural raw materials in the production of leather and tanning and leather-making materials and for developing and demonstrating improved methods or processes for producing leather (*submitted*) ----- 15,000. 00

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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Chemistry—Continued.*

NOTE.—This is a new item. Work on leather and tanning materials has been carried on in a small way by the Bureau of Chemistry for a number of years, but the importance of making special provision for an investigation of this type is particularly significant in view of the existing situation with reference to leather and leather-making materials. The long-used vegetable tanning materials, which are direct products of the forest and farm, are totally inadequate under present conditions to supply the country's needs, and others should be sought and developed. No investigations of leather and leather-making materials can be properly organized and completed which do not consider the composition and effect of the various tanning materials on the wear of leather. The development and demonstration of improved methods and processes for producing leather and the dissemination of definite information on how to make and recognize better and more durable leathers would be of inestimable service now. Large quantities of hides, skins, and tanning materials are imported annually, much of which would be unnecessary if all the leather made in this country were of better quality. About one-third of the hides and skins used in this country are now supplied by country butchers and farmers. Owing to carelessness and lack of knowledge in curing these hides and skins, it is estimated that the farmers and country butchers lose annually \$15,000,000, while the loss to the country in leather is probably more than double that amount. The work contemplated under the proposed item is purely agricultural in character. The interest of agriculture in leather and in tanning is paramount, supplying as it does nearly all the raw materials, and the agricultural population is the largest single class of consumers of the finished products. The tanning industry is closely related to agriculture, and any research work in this field must be based primarily on agriculture and the work of this department.

| Employees.                        | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|-----------------------------------|------------|------------------|------------------------------|
|                                   |            | <i>Number.</i>   | <i>Number.</i>               |
| Salaries:                         |            |                  |                              |
| Chemist in charge.....per annum.. | \$2,500.00 | 1                | ..                           |
| Tanner.....do.....                | 2,250.00   | 1                | ..                           |
| Assistants.....do.....            | 1,800.00   | 2                | ..                           |
| Chemist.....do.....               | 1,600.00   | 1                | ..                           |
|                                   |            | 5                | ..                           |
| Salaries.....                     |            | \$9,980.00       | .....                        |
| Other objects of expenditure:     |            |                  |                              |
| Traveling expenses.....           |            | 2,100.00         | .....                        |
| Equipment and material.....       |            | 2,400.00         | .....                        |
| Miscellaneous items.....          |            | 520.00           | .....                        |
| Total.....                        |            | 15,000.00        | .....                        |

<sup>1</sup> No appropriation for the fiscal year 1919.

In all, for general expenses ..... \$996,421.00 \$979,901.00

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1911..... | \$114,000 | Estimate for 1912..... | \$111,480 |
| Appropriation for 1912..... | 111,480   | Estimate for 1913..... | 101,280   |
| Appropriation for 1913..... | 89,280    | Estimate for 1914..... | 114,280   |
| Appropriation for 1914..... | 109,280   | Estimate for 1915..... | 180,680   |
| Appropriation for 1915..... | 150,680   | Estimate for 1916..... | 164,080   |
| Appropriation for 1916..... | 139,680   | Estimate for 1917..... | 832,211   |
| Appropriation for 1917..... | 838,211   | Estimate for 1918..... | 927,201   |
| Appropriation for 1918..... | 837,601   | Estimate for 1919..... | 849,481   |
| Appropriation for 1919..... | 849,481   | Estimate for 1920..... | 1,199,901 |
| Appropriation for 1920..... | 979,901   | Estimate for 1921..... | 996,421   |

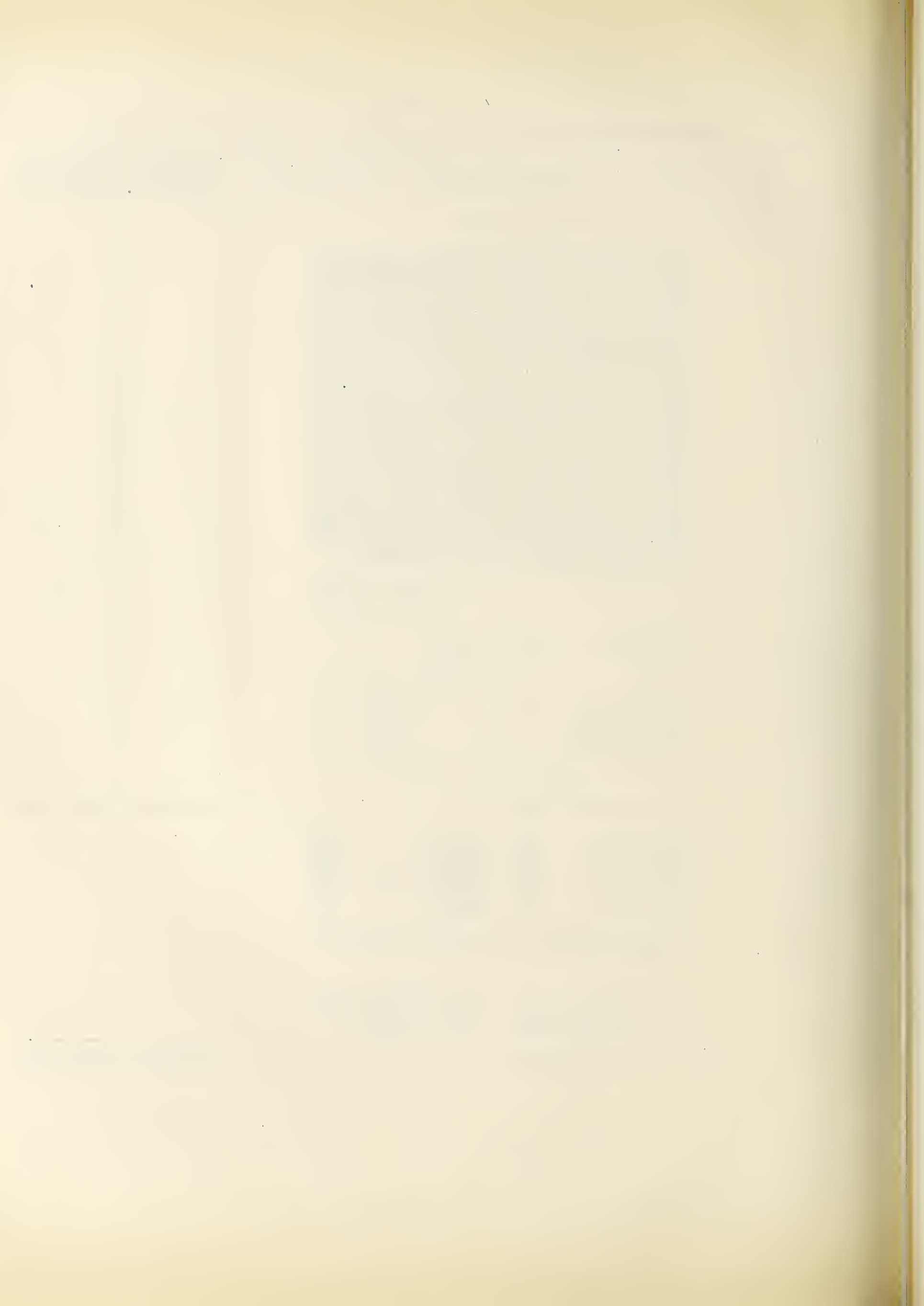
*Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).*

GENERAL EXPENSES—BUREAU OF CHEMISTRY.

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| 2 clerks, at \$1,800 each per annum. | 36 clerks, at \$1,200 each per annum. |
| 2 clerks, at \$1,600 each per annum. | 7 clerks, at \$1,100 each per annum.  |
| 4 clerks, at \$1,400 each per annum. | 1 clerk, \$1,000 per annum.           |

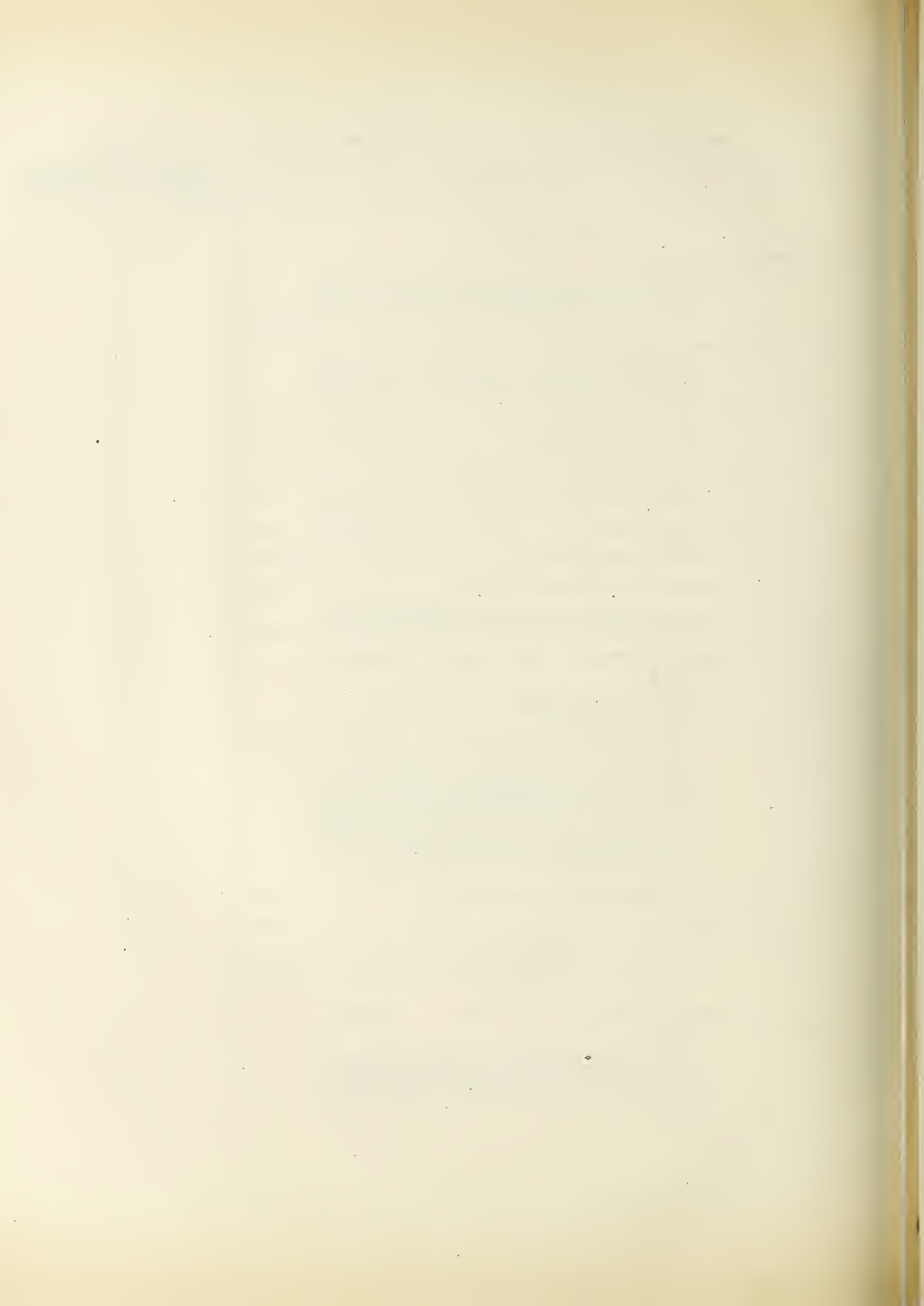
Total for Bureau of Chemistry ..... 1,424,511.00 1,391,571.00





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| BUREAU OF SOILS.  |   |   |
| <i>Salaries, Bureau of Soils—</i>   |   |   |
| (1) One soil physicist, who shall be chief of bureau ( <i>R. S.</i> , p. 87, secs. 520-523; acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 254, sec. 1)-----  | \$4,000.00  |   |
| (2) One chief clerk ( <i>same acts</i> )-----   | 2,000.00  |   |
| (3) One administrative assistant (by transfer from lump fund for potash investigations) ( <i>same acts</i> )-----   | 2,100.00  |   |
| (4) One executive assistant ( <i>same acts</i> )-----   | 2,000.00  |   |
| (5) Four clerks, class 4 ( <i>same acts</i> )-----  | 7,200.00  |   |
| (6) Two clerks, class 3 ( <i>same acts</i> )-----   | 3,200.00  |   |
| (7) Five clerks, class 2 ( <i>same acts</i> )-----  | 7,000.00  |   |
| (8) One clerk ( <i>same acts</i> )-----   | 1,260.00  |   |
| (9) Ten clerks, class 1 ( <i>same acts</i> )-----   | 12,000.00   |   |
| (10) Seven clerks, at \$1,000 each ( <i>same acts</i> )-----  | 7,000.00  |   |
| (11) Two soil cartographers, at \$1,800 each (increase of 1 by transfer from lump fund for soil survey) ( <i>same acts</i> )-----   | 3,600.00  |   |
| (12) <b>【One chief draftsman, \$1,600, changed to 1 draftsman, \$1,600】</b><br><br>NOTE.—This change in designation is recommended in order to better describe the duties of the position.  |   |   |
| (13) Two draftsmen, at \$1,600 each (1 in lieu of 1 chief draftsman, \$1,600, and 1 new place) ( <i>same acts</i> )-----  | 3,200.00  |   |
| NOTE.—This new place and the new place for 1 draftsman at \$1,200 included under item 16 are recommended in order to provide additional assistance urgently needed in connection with the soil survey map drafting work, which is considerably in arrears on account the loss of some of the most experienced and valuable members of the drafting force. Furthermore, by reason of the extension of the cooperative work with the several States, the number of areas surveyed has increased the amount of drafting work that must be done.<br>The change in designation of chief draftsman to draftsman is explained in the note under item 12. |   |   |
| (14) One soil bibliographer or draftsman ( <i>same acts</i> )-----  | 1,400.00  |   |
| (15) One photographer ( <i>same acts</i> )-----   | 1,200.00  |   |
| (16) Seven draftsmen, at \$1,200 each (increase of 2, 1 in lieu of 1 clerk-draftsman, \$1,200, and 1 new place) ( <i>same acts</i> )----  | 8,400.00  |   |
| NOTE.—See notes under items 13 and 17.  |   |   |
| (17) <b>【One clerk-draftsman, \$1,200, changed to 1 draftsman, \$1,200】</b><br><br>NOTE.—This change in designation is recommended in order to more accurately indicate the character of the work performed, which is solely of a drafting nature. The Civil Service Commission has held, however, that the statutory position of "clerk-draftsman" must be filled by a draftsman qualified as clerk, which requirement works an unnecessary hardship.  |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Soils—Continued.</i>   |   |   |
| (18) Two draftsmen, at \$1,000 each ( <i>R. S., p. 87, secs. 520-523; acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 254, sec. 1</i> )-----     | \$2, 000. 00  |   |
| (19) One laboratory helper ( <i>same acts</i> )-----  | 1, 000. 00  |   |
| (20) Three laboratory helpers, at \$840 each ( <i>same acts</i> )-----  | 2, 520. 00  |   |
| (21) One machinist ( <i>same acts</i> )-----  | 1, 440. 00  |   |
| (22) One machinist ( <i>same acts</i> )-----  | 1, 380. 00  |   |
| (23) One instrument maker ( <i>same acts</i> )-----   | 1, 200. 00  |   |
| (24) One machinist's helper ( <i>same acts</i> )-----   | 900. 00   |   |
| (25) One messenger ( <i>same acts</i> )-----  | 840. 00   |   |
| (26) One messenger or laborer ( <i>same acts</i> )-----   | 480. 00   |   |
| (27) Two messenger boys, at \$480 each ( <i>same acts</i> )-----  | 960. 00   |   |
| (28) Three laborers, at \$600 each ( <i>same acts</i> )-----  | 1, 800. 00  |   |
| (29) One laborer ( <i>same acts</i> )-----  | 300. 00   |   |
| (30) One charwoman or laborer ( <i>same acts</i> )-----   | 480. 00   |   |
|   | \$80, 860. 00   | \$74, 160. 00   |

|                              |           |                         |           |
|------------------------------|-----------|-------------------------|-----------|
| Appropriations for 1911..... | \$37, 420 | Estimates for 1912..... | \$52, 020 |
| Appropriations for 1912..... | 48, 320   | Estimates for 1913..... | 57, 330   |
| Appropriations for 1913..... | 50, 540   | Estimates for 1914..... | 57, 420   |
| Appropriations for 1914..... | 53, 620   | Estimates for 1915..... | 59, 420   |
| Appropriations for 1915..... | 60, 820   | Estimates for 1916..... | 62, 420   |
| Appropriations for 1916..... | 62, 420   | Estimates for 1917..... | 70, 000   |
| Appropriations for 1917..... | 70, 000   | Estimates for 1918..... | 72, 620   |
| Appropriations for 1918..... | 72, 220   | Estimates for 1919..... | 74, 160   |
| Appropriations for 1919..... | 74, 150   | Estimates for 1920..... | 74, 160   |
| Appropriations for 1920..... | 74, 160   | Estimates for 1921..... | 80, 860   |

NOTE.—Apparent increase, \$6,700; actual increase, \$2,800, as follows:

*New places.*

|                      |          |
|----------------------|----------|
| 1 draftsman.....     | \$1, 600 |
| 1 draftsman.....     | 1, 200   |
| Actual increase..... | \$2, 800 |

*Transfers from lump funds of this bureau, which funds have been correspondingly reduced.*

|   |        |
|---|--------|
| 1 administrative assistant, from potash investigations..... | 2, 100 |
| 1 soil cartographer, from soil survey.....                  | 1, 800 |
|   | 3, 900 |
| Apparent increase.....                                      | 6, 700 |

*Change of title.*

1 chief draftsman, \$1, 600, changed to 1 draftsman, \$1, 600.  
1 clerk-draftsman, \$1, 200, changed to 1 draftsman, \$1, 200.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                             |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
|---|---|---|-----------------------------|--------------------|-----------------------------|--------|------------------------|----------------|-------------------------------------|------------|------------------------|--------|-----------------------------|----------|------------------------|-----------|-----------------------------|----------|------------------------|--------|-----------------------------|----------|------------------------|--------|-----------------------------|----------|------------------------|--------|-----------------------------|----------|------------------------|--------|-----------------------|----------|------------------------|--------|-----------------------|----------|----|-----------|------------------------|----------|---|-----------------------------|------------------------|----------|---|---|-----------------------|----------|----|-----------|------------------------|----------|----|---|-----------------------------------|-------|----|-----------|--|--|----|----|---------------|--|-------------|-------------|--------------------------------------|--|--|--|-------------------------|--|-------|-------|-----------------------------|--|----------|----------|--------------------------|--|--------|-------|-------------------|--|------------------|------------------|--|--|
| <p><i>General Expenses, Bureau of Soils—</i></p> <p>(31) For all necessary expenses connected with the investigations and experiments hereinafter authorized, including the employment of investigators, local and special agents, assistants, experts, clerks, draftsmen, and labor in the city of Washington and elsewhere; official traveling expenses, materials, tools, instruments, apparatus, repairs to apparatus, chemicals, furniture, office fixtures, stationery, gas, electric current, telegraph and telephone service, express and freight charges, rent outside the District of Columbia, and for all other necessary supplies and expenses, as follows (<i>acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i>):</p> <p>(32) For chemical investigations of soil types, soil composition and soil minerals, the soil solution, solubility of soil and all chemical properties of soils in their relation to soil formation, soil texture, and soil productivity, including all routine chemical work in connection with the soil survey (<i>same acts</i>)-----</p> <p>\$25,610.00</p> <table><tr><td>Appropriation for 1913.....</td><td>\$18,135</td><td>Estimate for 1913.....</td><td>\$18,135</td></tr><tr><td>Appropriation for 1914.....</td><td>18,135</td><td>Estimate for 1914.....</td><td>18,135</td></tr><tr><td>Appropriation for 1915.....</td><td>22,350</td><td>Estimate for 1915.....</td><td>22,350</td></tr><tr><td>Appropriation for 1916.....</td><td>22,350</td><td>Estimate for 1916.....</td><td>22,350</td></tr><tr><td>Appropriation for 1917.....</td><td>20,610</td><td>Estimate for 1917.....</td><td>20,610</td></tr><tr><td>Appropriation for 1918.....</td><td>25,610</td><td>Estimate for 1918.....</td><td>25,610</td></tr><tr><td>Appropriation for 1919.....</td><td>25,610</td><td>Estimate for 1919.....</td><td>25,610</td></tr><tr><td>Appropriation for 1920.....</td><td>25,610</td><td>Estimate for 1920.....</td><td>25,610</td></tr><tr><td></td><td></td><td>Estimate for 1921.....</td><td>25,610</td></tr></table> | Appropriation for 1913.....                                       | \$18,135  | Estimate for 1913.....      | \$18,135           | Appropriation for 1914..... | 18,135 | Estimate for 1914..... | 18,135         | Appropriation for 1915.....         | 22,350     | Estimate for 1915..... | 22,350 | Appropriation for 1916..... | 22,350   | Estimate for 1916..... | 22,350    | Appropriation for 1917..... | 20,610   | Estimate for 1917..... | 20,610 | Appropriation for 1918..... | 25,610   | Estimate for 1918..... | 25,610 | Appropriation for 1919..... | 25,610   | Estimate for 1919..... | 25,610 | Appropriation for 1920..... | 25,610   | Estimate for 1920..... | 25,610 |                       |          | Estimate for 1921..... | 25,610 |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1913.....   | \$18,135  | Estimate for 1913.....  | \$18,135                    |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1914.....   | 18,135  | Estimate for 1914.....  | 18,135                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1915.....   | 22,350  | Estimate for 1915.....  | 22,350                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1916.....   | 22,350  | Estimate for 1916.....  | 22,350                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1917.....   | 20,610  | Estimate for 1917.....  | 20,610                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1918.....   | 25,610  | Estimate for 1918.....  | 25,610                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1919.....   | 25,610  | Estimate for 1919.....  | 25,610                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Appropriation for 1920.....   | 25,610  | Estimate for 1920.....  | 25,610                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
|   |   | Estimate for 1921.....  | 25,610                      |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr><tr><td><b>Salaries:</b></td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Assistant in charge.....per annum..</td><td>\$3,750.00</td><td>1</td><td>..</td></tr><tr><td>Biochemist.....do.....</td><td>3,240.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Scientist.....do.....</td><td>2,580.00</td><td>1</td><td>..</td></tr><tr><td>Scientist.....do.....</td><td>2,400.00</td><td>..</td><td>1</td></tr><tr><td>Scientist.....do.....</td><td>2,220.00</td><td>1</td><td>1</td></tr><tr><td>Scientist.....do.....</td><td>2,000.00</td><td>1</td><td>1</td></tr><tr><td>Scientist.....do.....</td><td>1,980.00</td><td>1</td><td>1</td></tr><tr><td>Scientist.....do.....</td><td>1,740.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Scientists.....do.....</td><td>1,680.00</td><td>2</td><td>3 (1 temp.;<br/>1 pt. time.)</td></tr><tr><td>Scientists.....do.....</td><td>1,620.00</td><td>5</td><td>2</td></tr><tr><td>Scientist.....do.....</td><td>1,600.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Scientists.....do.....</td><td>1,440.00</td><td>..</td><td>3</td></tr><tr><td>Laboratory helper.....per month..</td><td>50.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td></td><td></td><td>12</td><td>16</td></tr><tr><td>Salaries.....</td><td></td><td>\$23,990.00</td><td>\$17,687.19</td></tr><tr><td><b>Other objects of expenditure:</b></td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>75.00</td><td>.....</td></tr><tr><td>Equipment and material.....</td><td></td><td>1,395.00</td><td>1,345.34</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>150.00</td><td>41.56</td></tr><tr><td><b>Total.....</b></td><td></td><td><b>25,610.00</b></td><td><b>19,074.00</b></td></tr></table>   | Employees.  | Rate.   | Estimated,<br>1921.         | Expended,<br>1919. | <b>Salaries:</b>            |        | <i>Number.</i>         | <i>Number.</i> | Assistant in charge.....per annum.. | \$3,750.00 | 1                      | ..     | Biochemist.....do.....      | 3,240.00 | ..                     | 1 (temp.) | Scientist.....do.....       | 2,580.00 | 1                      | ..     | Scientist.....do.....       | 2,400.00 | ..                     | 1      | Scientist.....do.....       | 2,220.00 | 1                      | 1      | Scientist.....do.....       | 2,000.00 | 1                      | 1      | Scientist.....do..... | 1,980.00 | 1                      | 1      | Scientist.....do..... | 1,740.00 | .. | 1 (temp.) | Scientists.....do..... | 1,680.00 | 2 | 3 (1 temp.;<br>1 pt. time.) | Scientists.....do..... | 1,620.00 | 5 | 2 | Scientist.....do..... | 1,600.00 | .. | 1 (temp.) | Scientists.....do..... | 1,440.00 | .. | 3 | Laboratory helper.....per month.. | 50.00 | .. | 1 (temp.) |  |  | 12 | 16 | Salaries..... |  | \$23,990.00 | \$17,687.19 | <b>Other objects of expenditure:</b> |  |  |  | Traveling expenses..... |  | 75.00 | ..... | Equipment and material..... |  | 1,395.00 | 1,345.34 | Miscellaneous items..... |  | 150.00 | 41.56 | <b>Total.....</b> |  | <b>25,610.00</b> | <b>19,074.00</b> |  |  |
| Employees.  | Rate.   | Estimated,<br>1921.   | Expended,<br>1919.          |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| <b>Salaries:</b>  |   | <i>Number.</i>  | <i>Number.</i>              |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Assistant in charge.....per annum..   | \$3,750.00  | 1   | ..                          |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Biochemist.....do.....  | 3,240.00  | ..  | 1 (temp.)                   |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 2,580.00  | 1   | ..                          |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 2,400.00  | ..  | 1                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 2,220.00  | 1   | 1                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 2,000.00  | 1   | 1                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 1,980.00  | 1   | 1                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 1,740.00  | ..  | 1 (temp.)                   |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientists.....do.....  | 1,680.00  | 2   | 3 (1 temp.;<br>1 pt. time.) |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientists.....do.....  | 1,620.00  | 5   | 2                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientist.....do.....   | 1,600.00  | ..  | 1 (temp.)                   |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Scientists.....do.....  | 1,440.00  | ..  | 3                           |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Laboratory helper.....per month..   | 50.00   | ..  | 1 (temp.)                   |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
|   |   | 12  | 16                          |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Salaries.....   |   | \$23,990.00   | \$17,687.19                 |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| <b>Other objects of expenditure:</b>  |   |   |                             |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Traveling expenses.....   |   | 75.00   | .....                       |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Equipment and material.....   |   | 1,395.00  | 1,345.34                    |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| Miscellaneous items.....  |   | 150.00  | 41.56                       |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |
| <b>Total.....</b>   |   | <b>25,610.00</b>  | <b>19,074.00</b>            |                    |                             |        |                        |                |                                     |            |                        |        |                             |          |                        |           |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                             |          |                        |        |                       |          |                        |        |                       |          |    |           |                        |          |   |                             |                        |          |   |   |                       |          |    |           |                        |          |    |   |                                   |       |    |           |  |  |    |    |               |  |             |             |                                      |  |  |  |                         |  |       |       |                             |  |          |          |                          |  |        |       |                   |  |                  |                  |  |  |

1/20/1917  
1/20/1917  
1/20/1917



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
|--|------------|---|---|------------|-------|------------------|-----------------|-----------|--|---------|---------|-------------------------------------|------------|---|---|-----------------------|----------|---|---|-----------------------|----------|---------|-----------|-----------------------|----------|----|-----------|------------------------|----------|---|---|-----------------------|----------|---|---|------------------------------|----------|---|---|-----------------------------------|----------|---|---|--|--|---|---|---------------|--|-------------|-------------|-------------------------------|--|--|--|-------------------------|--|-------|--------|-----------------------------|--|----------|----------|--------------------------|--|-------|-------|------------|--|-----------|-----------|
| <i>General Expenses, Bureau of Soils—Continued.</i>  |            |   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| (33) For physical investigations of the important properties of soil which determine productivity, such as moisture relations, aerations, heat conductivity, texture, and other physical investigations of the various soil classes and soil types <b>[\$12,225]</b> ( <i>acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i> )   |            | \$17,225.00   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1913.....  | \$11,265   | Estimate for 1913.....  | \$11,265  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1914.....  | 11,265     | Estimate for 1914.....  | 11,265  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1915.....  | 19,470     | Estimate for 1915.....  | 19,470  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1916.....  | 15,265     | Estimate for 1916.....  | 11,265  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1917.....  | 12,225     | Estimate for 1917.....  | 12,225  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1918.....  | 12,225     | Estimate for 1918.....  | 12,225  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1919.....  | 12,225     | Estimate for 1919.....  | 12,225  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1920.....  | 12,225     | Estimate for 1920.....  | 12,225  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
|  |            | Estimate for 1921.....  | 17,225  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| <p>NOTE.—There is an increase in the above item of \$5,000. For some time, beginning prior to the war, practically the entire personnel paid from this appropriation has been engaged on work in the investigation of atmospheric nitrogen in cooperation with the War Department. This work is of vital interest to the Department of Agriculture and should be continued during the period of readjustment. The detail of men to this special investigation has greatly hindered the regular work in the physical examination of soils, and the appropriation available for this purpose is totally inadequate. Additional help is required in the laboratory, and more funds are needed to provide for the construction and standardization of instruments.</p>   |            |   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| <table> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr> <tr> <td>Salaries:</td><td></td><td>Number.</td><td>Number.</td></tr> <tr> <td>Scientist in charge.....per annum..</td><td>\$3,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientist.....do.....</td><td>2,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientist.....do.....</td><td>1,800.00</td><td>1 (new)</td><td>1 (temp.)</td></tr> <tr> <td>Scientist.....do.....</td><td>1,740.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Scientists.....do.....</td><td>1,500.00</td><td>2</td><td>1</td></tr> <tr> <td>Scientist.....do.....</td><td>1,320.00</td><td>1</td><td>1</td></tr> <tr> <td>Instrument maker.....do.....</td><td>2,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemical laboratorian.....do.....</td><td>1,200.00</td><td>1</td><td>1</td></tr> <tr> <td></td><td></td><td>8</td><td>8</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$15,320.00</td><td>\$10,105.53</td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>50.00</td><td>179.45</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>1,780.00</td><td>1,447.56</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>75.00</td><td>87.34</td></tr> <tr> <td>Total.....</td><td></td><td>17,225.00</td><td>11,819.88</td></tr> </table> |            |   |   | Employees. | Rate. | Estimated, 1921. | Expended, 1919. | Salaries: |  | Number. | Number. | Scientist in charge.....per annum.. | \$3,500.00 | 1 | 1 | Scientist.....do..... | 2,500.00 | 1 | 1 | Scientist.....do..... | 1,800.00 | 1 (new) | 1 (temp.) | Scientist.....do..... | 1,740.00 | .. | 1 (temp.) | Scientists.....do..... | 1,500.00 | 2 | 1 | Scientist.....do..... | 1,320.00 | 1 | 1 | Instrument maker.....do..... | 2,000.00 | 1 | 1 | Chemical laboratorian.....do..... | 1,200.00 | 1 | 1 |  |  | 8 | 8 | Salaries..... |  | \$15,320.00 | \$10,105.53 | Other objects of expenditure: |  |  |  | Traveling expenses..... |  | 50.00 | 179.45 | Equipment and material..... |  | 1,780.00 | 1,447.56 | Miscellaneous items..... |  | 75.00 | 87.34 | Total..... |  | 17,225.00 | 11,819.88 |
| Employees.   | Rate.      | Estimated, 1921.  | Expended, 1919.   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Salaries:  |            | Number.   | Number.   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientist in charge.....per annum..  | \$3,500.00 | 1   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientist.....do.....  | 2,500.00   | 1   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientist.....do.....  | 1,800.00   | 1 (new)   | 1 (temp.)   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientist.....do.....  | 1,740.00   | ..  | 1 (temp.)   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientists.....do.....   | 1,500.00   | 2   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Scientist.....do.....  | 1,320.00   | 1   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Instrument maker.....do.....   | 2,000.00   | 1   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Chemical laboratorian.....do.....  | 1,200.00   | 1   | 1   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
|  |            | 8   | 8   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Salaries.....  |            | \$15,320.00   | \$10,105.53   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Other objects of expenditure:  |            |   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Traveling expenses.....  |            | 50.00   | 179.45  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Equipment and material.....  |            | 1,780.00  | 1,447.56  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Miscellaneous items.....   |            | 75.00   | 87.34   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Total.....   |            | 17,225.00   | 11,819.88   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| (34) For exploration and investigation within the United States to determine possible sources of supply of potash, nitrates, and other natural fertilizers <b>[\$31,340]</b> ( <i>same acts</i> )  |            | 50,000.00   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1913.....  | \$22,200   | Estimate for 1913.....  | \$22,200  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1914.....  | 25,000     | Estimate for 1914.....  | 27,200  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1915.....  | 31,500     | Estimate for 1915.....  | 31,500  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1916.....  | 36,500     | Estimate for 1916.....  | 36,500  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1917.....  | 35,600     | Estimate for 1917.....  | 35,600  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1918.....  | 33,380     | Estimate for 1918.....  | 33,380  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1919.....  | 31,340     | Estimate for 1919.....  | 31,340  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| Appropriation for 1920.....  | 31,340     | Estimate for 1920.....  | 50,000  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
|  |            | Estimate for 1921.....  | 50,000  |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |
| <p>NOTE.—There is an increase in the above item of \$18,660, which it is proposed to expend as follows:</p> <p>(a) \$7,500 for nitrogen fixation investigations by means of the Haber synthetic ammonia process. The bureau's available funds are entirely inadequate for this work, and but for the assistance given by the War Department, and the installation of extensive equipment at the American University, it would have been necessary long since to materially reduce its scope or discontinue it altogether. These investigations primarily are as important from the fertilizer standpoint in times of peace as from the ammunition standpoint in war times. The department should be in position to develop with its own resources investigations of such vital importance to the country at large without being dependent upon any other branch of the service for financial support. The increase requested</p>   |            |   |   |            |       |                  |                 |           |  |         |         |                                     |            |   |   |                       |          |   |   |                       |          |         |           |                       |          |    |           |                        |          |   |   |                       |          |   |   |                              |          |   |   |                                   |          |   |   |  |  |   |   |               |  |             |             |                               |  |  |  |                         |  |       |        |                             |  |          |          |                          |  |       |       |            |  |           |           |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Soils—Continued.

will enable the bureau to employ additional research chemists and laboratory assistance and purchase necessary equipment and supplies for the Arlington farm laboratory.

(b) \$5,500 for the development of the phosphate fertilizer investigations. Phosphate rock and phosphate fertilizer investigations have been confined largely during the past year to furnace treatment of phosphate rock. The process in course of development has for its object the production of highly concentrated phosphoric acid and phosphate fertilizers from low-grade raw materials. This process also gives promise of conserving vast quantities of phosphate materials now thrown away or lost in the present systems of mining and preparing the rock for the market. The preliminary work accomplished has been highly satisfactory, and a modified blast furnace of semicommercial size is in course of construction. It is anticipated that the results will furnish data from which it will be possible to determine the cost of producing phosphate fertilizer by the new process. From time to time it will be necessary to run this plant continuously for protracted periods, requiring two or three shifts of men, thereby necessitating additions to the present force. Repairs and changes must also be made as the work progresses.

(c) \$5,660 for potash investigations. Recent investigations show the potential value as a source of potash of the dust escaping from the cement plants of the country and the manner in which the potash occurs in the dust. Methods have been worked out for making the insoluble portion of the potash readily soluble, but there still remains the problem of developing commercial methods of separating and concentrating the potash occurring not only in cement dust but in other sources as well. It is very essential that further work along this line be undertaken, since the material with which potash is associated often greatly depreciates its value or makes it unsuitable for use as a fertilizer.

| Employees.                                | Rate.      | Estimated,<br>1921,<br><i>Number.</i> | Expended,<br>1919,<br><i>Number.</i> |
|---|------------|---------------------------------------|--------------------------------------|
| <b>Salaries:</b>                          |            |                                       |                                      |
| Assistant in charge.....per annum..       | \$3,500.00 | 1                                     | ..                                   |
| Assistant in charge.....do.....           | 3,240.00   | ..                                    | 1 (temp.)                            |
| Scientist.....do.....                     | 2,880.00   | 1                                     | ..                                   |
| Scientists.....do.....                    | 2,760.00   | 2                                     | 2                                    |
| Scientist.....do.....                     | 2,640.00   | 1                                     | 1 (temp.)                            |
| Scientist.....do.....                     | 2,000.00   | 1                                     | 1                                    |
| Scientist.....do.....                     | 1,980.00   | 1                                     | 1                                    |
| Scientist.....do.....                     | 1,800.00   | 1 (new)                               | ..                                   |
| Scientist.....do.....                     | 1,680.00   | ..                                    | 1 (pt. time)                         |
| Scientists.....do.....                    | 1,620.00   | 4 (new)                               | ..                                   |
| Scientist.....do.....                     | 1,560.00   | ..                                    | 1 (temp.)                            |
| Scientists.....do.....                    | 1,500.00   | 3 (new)                               | ..                                   |
| Scientist.....do.....                     | 1,440.00   | 1 (new)                               | ..                                   |
| Electro-chemist.....do.....               | 2,750.00   | 1                                     | ..                                   |
| Electro-chemist.....do.....               | 2,500.00   | ..                                    | 1                                    |
| Electro-chemical engineer.....do.....     | 2,640.00   | 1                                     | 1 (temp.)                            |
| Associate mechanical engineer.....do..... | 2,500.00   | ..                                    | 1 (temp.)                            |
| Chemist.....do.....                       | 1,800.00   | ..                                    | 1 (temp.)                            |
| Laboratory helper.....do.....             | 1,100.00   | ..                                    | 1                                    |
| Collaborator.....do.....                  | 300.00     | 1                                     | 1                                    |
| <b>Wages:</b>                             |            |                                       |                                      |
| Machinists.....do.....                    | 1,680.00   | 2                                     | 2                                    |
| Machinist's helper.....do.....            | 1,200.00   | ..                                    | 1 (temp.)                            |
| Laborer.....do.....                       | 600.00     | ..                                    | 1 (temp.)                            |
| Mechanic.....per diem..                   | 7.00       | ..                                    | 1 (temp.)                            |
|   |            | 21                                    | 19                                   |
| Salaries.....                             |            | \$38,430.00                           | \$19,678.43                          |
| Wages.....                                |            | 3,360.00                              | 4,177.67                             |
| <b>Other objects of expenditure:</b>      |            |                                       |                                      |
| Traveling expenses.....                   | 750.00     |                                       | 1,401.03                             |
| Equipment and material.....               | 3,500.00   |                                       | 3,218.27                             |
| Miscellaneous items.....                  | 3,960.00   |                                       | 4,488.64                             |
| <b>Total.....</b>                         |            | <b>50,000.00</b>                      | <b>32,964.04</b>                     |

100  
100  
100



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Soils—Continued.*

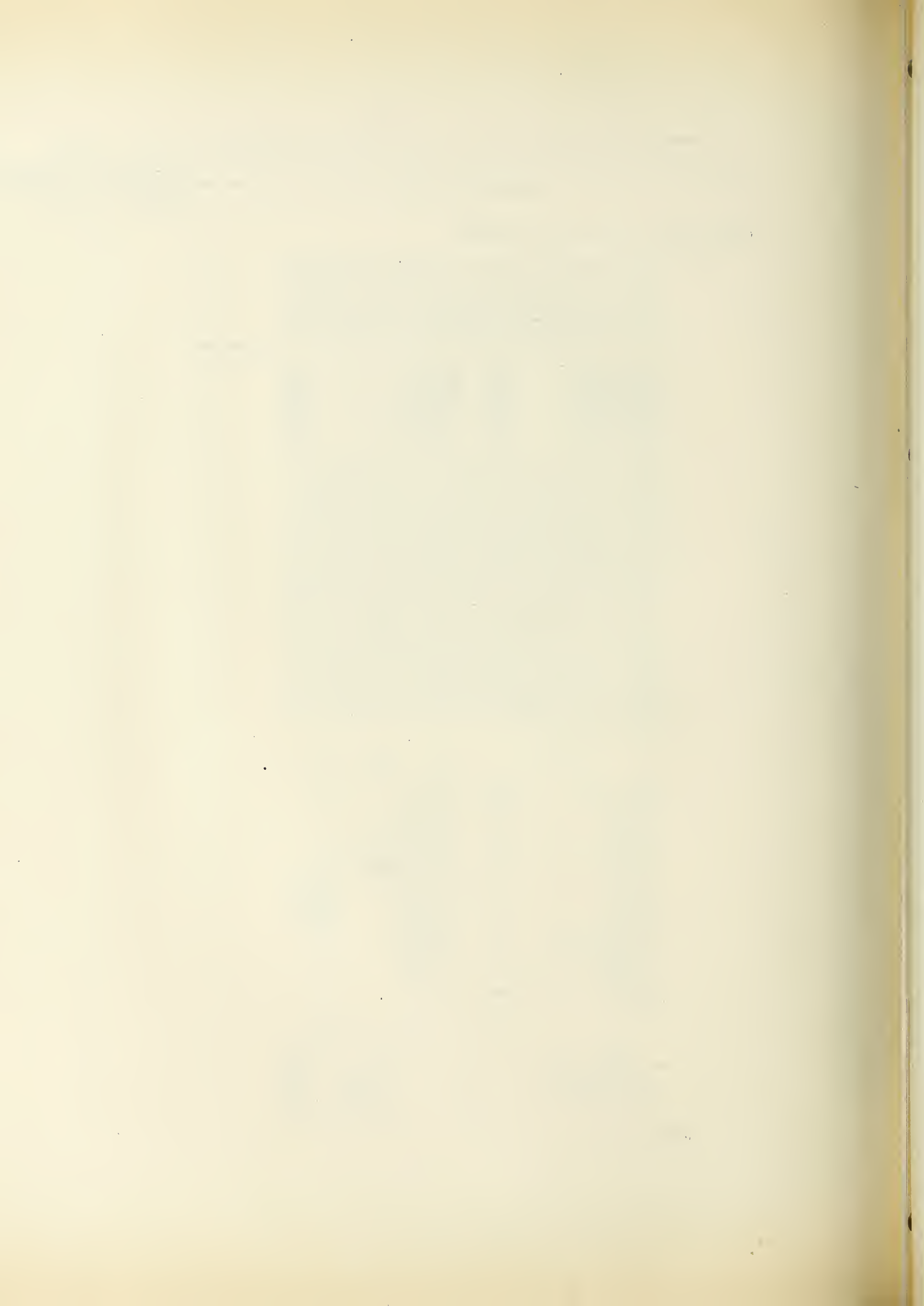
- (35) For the investigation of soils, in cooperation with other branches of the Department of Agriculture, other departments of the Government, State agricultural experiment stations, and other State institutions, and for indicating upon maps and plats, by coloring or otherwise, the results of such investigations **[\$198,200]** (acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1) ----- \$231,400.00

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1911..... | \$135,160 | Estimate for 1912..... | \$166,960 |
| Appropriation for 1912..... | 166,960   | Estimate for 1913..... | 160,000   |
| Appropriation for 1913..... | 165,000   | Estimate for 1914..... | 195,000   |
| Appropriation for 1914..... | 169,800   | Estimate for 1915..... | 169,800   |
| Appropriation for 1915..... | 169,800   | Estimate for 1916..... | 200,100   |
| Appropriation for 1916..... | 168,200   | Estimate for 1917..... | 198,200   |
| Appropriation for 1917..... | 168,200   | Estimate for 1918..... | 198,200   |
| Appropriation for 1918..... | 216,300   | Estimate for 1919..... | 216,300   |
| Appropriation for 1919..... | 216,300   | Estimate for 1920..... | 216,300   |
| Appropriation for 1920..... | 198,200   | Estimate for 1921..... | 231,400   |

NOTE.—There is an apparent increase in this subappropriation of \$33,200, but taking into consideration the transfer to the statutory roll of a cartographer at \$1,800, the actual increase is \$35,000. The soil survey work is carried on in a number of the States in cooperation with State institutions, the cooperating agencies contributing in salaries and field expenses an amount approximately equal to that expended by the department. It is therefore possible to accomplish practically double the results in these States for each dollar of Federal funds expended. Experiment station officials, recognizing the fundamental value of the soil survey work, are making increasing use of the results in their study of local problems. Officials of Michigan, Minnesota, Montana, and Oklahoma have indicated their desire to enter into cooperation, and for this purpose \$5,000 of department funds will be required in each of those States. Several of the States now cooperating desire to enlarge this work and are planning to provide increased appropriations during the coming year. In Texas and Iowa the cooperating agencies contemplate a material enlargement of the work, and, in order to match the State appropriations, at least \$3,000 additional Federal funds will be required for each of these States. It is also very desirable that more work be accomplished in the noncooperating States, for which purpose an additional allotment of \$9,000 will be required. It is deemed inadvisable to discontinue work in noncooperating States with the view of diverting the funds to cooperating States, as the results obtained in the former are just as essential from a national point of view as those in the latter.

| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| Salaries:  |            | Number.             | Number.            |
| Scientist in charge.....per annum..                  | \$3,750.00 | 1                   | 1                  |
| Scientist.....do.....                                | 3,250.00   | 1                   | 1                  |
| Scientists.....do.....                               | 2,750.00   | 5                   | 5                  |
| Scientist.....do.....                                | 2,500.00   | 1                   | 1                  |
| Scientists.....do.....                               | 1,920.00   | 6 (2 new)           | 4                  |
| Scientists.....do.....                               | 1,800.00   | 5 (2 new)           | 5 (2 temp.)        |
| Scientists.....do.....                               | 1,740.00   | 3                   | 3                  |
| Scientists.....do.....                               | 1,680.00   | 5 (2 new)           | 3                  |
| Scientists.....do.....                               | 1,620.00   | 5 (2 new)           | 1                  |
| Scientists.....do.....                               | 1,560.00   | 6 (2 new)           | 6 (2 temp.)        |
| Scientists.....do.....                               | 1,500.00   | 8                   | 15 (7 temp.)       |
| Scientists.....do.....                               | 1,440.00   | 7 (3 new)           | 3 (1 temp.)        |
| Scientists.....do.....                               | 1,400.00   | ..                  | 1 (temp.)          |
| Scientists.....do.....                               | 1,380.00   | 7                   | 2 (1 temp.)        |
| Scientists.....do.....                               | 1,320.00   | 7                   | 9 (2 temp.)        |
| Scientists.....do.....                               | 1,200.00   | 10                  | 13 (8 temp.)       |
| Scientists.....do.....                               | 1,080.00   | 7                   | 3 (2 temp.)        |
| Administrative assistant.....do.....                 | 2,100.00   | ..                  | 1                  |
| Soil cartographer.....do.....                        | 1,800.00   | ..                  | 1                  |
| Photographer.....do.....                             | 1,400.00   | ..                  | 1                  |
| Draftsman.....do.....                                | 1,200.00   | ..                  | 1 (temp.)          |
| Collaborators.....do.....                            | 1.00       | 25                  | 19                 |
| Photographer and special field agent.....per diem... | \$7 to \$5 | ..                  | 2 (temp.)          |
| Wages:   |            |                     |                    |
| Laborer.....per annum..                              | 600.00     | ..                  | 1                  |
| Machinist.....per month..                            | 75.00      | ..                  | 1 (temp.)          |
|  |            | 109                 | 103                |
| Salaries.....  |            | \$135,415.00        | \$90,142.10        |
| Wages.....   |            |                     | 787.50             |
| Other objects of expenditure:                        |            |                     |                    |
| Traveling expenses.....                              |            | 91,500.00           | 62,607.78          |
| Equipment and material.....                          |            | 3,500.00            | 2,010.84           |
| Miscellaneous items.....                             |            | 985.00              | 384.98             |
| Total.....   |            | 231,400.00          | 153,933.20         |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

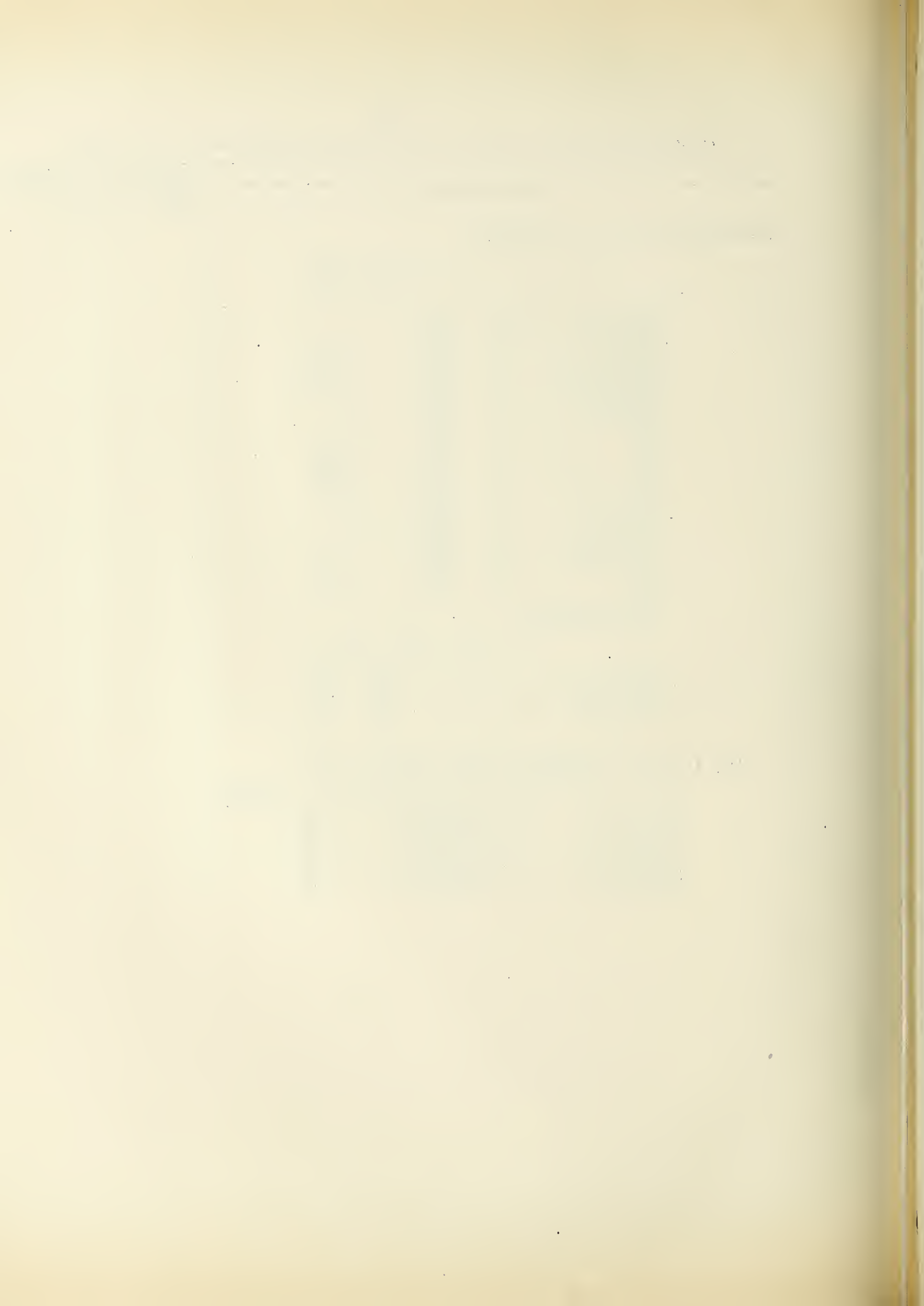
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
|--|---|---|---|----------|--|--------------------|--|--------|---|----------------|----------------------------|------------|---|----|-------------------------|----------|---|---|-------------------------|----------|---|----|--|--|---|---|---------------|--|------------|------------|-------------------------------|--|--|--|-------------------------|--|----------|----------|--------------------------|--|--|-------|------------|--|-----------|----------|
| <i>General Expenses, Bureau of Soils—Continued.</i>  |   |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| (36) For examination of soils to aid in the classification of agricultural lands in cooperation with other bureaus of the department and other departments of the Government ( <i>acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i> ) .....   | \$18, 100. 00   |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1914..... \$20,000   | Estimate for 1914..... \$20,000                                   |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1915..... 20,000   | Estimate for 1915..... 20,000                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1916..... 20,000   | Estimate for 1916..... 20,000                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1917..... 18,100   | Estimate for 1917..... 18,100                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1918..... 18,100   | Estimate for 1918..... 18,100                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1919..... 18,100   | Estimate for 1919..... 18,100                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1920..... 18,100   | Estimate for 1920..... 18,100                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
|  | Estimate for 1921..... 18,100                                     |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Scientist..... per annum..</td><td>\$1,920.00</td><td>1</td><td>..</td></tr><tr><td>Scientists..... do.....</td><td>1,800.00</td><td>2</td><td>1</td></tr><tr><td>Scientists..... do.....</td><td>1,500.00</td><td>2</td><td>..</td></tr><tr><td></td><td></td><td>5</td><td>1</td></tr><tr><td>Salaries.....</td><td></td><td>\$3,520.00</td><td>\$1,800.00</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>9,580.00</td><td>2,355.46</td></tr><tr><td>Miscellaneous items.....</td><td></td><td></td><td>10.79</td></tr><tr><td>Total.....</td><td></td><td>18,100.00</td><td>4,166.25</td></tr></table>   |   |   | Employees.  | Rate.    | Estimated,<br>1921.                            | Expended,<br>1919. | Salaries:  |        | <i>Number.</i>  | <i>Number.</i> | Scientist..... per annum.. | \$1,920.00 | 1 | .. | Scientists..... do..... | 1,800.00 | 2 | 1 | Scientists..... do..... | 1,500.00 | 2 | .. |  |  | 5 | 1 | Salaries..... |  | \$3,520.00 | \$1,800.00 | Other objects of expenditure: |  |  |  | Traveling expenses..... |  | 9,580.00 | 2,355.46 | Miscellaneous items..... |  |  | 10.79 | Total..... |  | 18,100.00 | 4,166.25 |
| Employees.   | Rate.   | Estimated,<br>1921.   | Expended,<br>1919.                                |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Salaries:  |   | <i>Number.</i>  | <i>Number.</i>                                    |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Scientist..... per annum..   | \$1,920.00  | 1   | ..  |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Scientists..... do.....  | 1,800.00  | 2   | 1   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Scientists..... do.....  | 1,500.00  | 2   | ..  |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
|  |   | 5   | 1   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Salaries.....  |   | \$3,520.00  | \$1,800.00  |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Other objects of expenditure:  |   |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Traveling expenses.....  |   | 9,580.00  | 2,355.46  |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Miscellaneous items.....   |   |   | 10.79   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Total.....   |   | 18,100.00   | 4,166.25  |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| (37) For the investigation and demonstration within the United States to determine the best method of obtaining potash on a commercial scale, <b>["\$127,600"] \$192,900: Provided.</b> That the product obtained from such experimentation may be sold at a price to be determined by the Secretary of Agriculture, and the amount obtained from the sale thereof shall be covered into the Treasury as miscellaneous receipts ( <i>same acts</i> ) .....   | 192, 900. 00  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1919..... \$127,600  | Estimate for 1919..... \$127,600                                  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| Appropriation for 1920..... 127,600  | Estimate for 1920..... 127,600                                    |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
|  | Estimate for 1921..... 192,900                                    |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| <p>NOTE.—There is an apparent increase in the above item of \$65,300, but taking into consideration the transfer to the statutory roll of 1 administrative assistant at \$2,100, the actual increase is \$67,400. This amount is necessary in order to provide for new apparatus, additional supplies, acid for char extraction, and to meet the advance in the cost of labor in operating the experimental kelp potash plant at Summerville, Calif. It is estimated that \$101,000 will be realized from the sale of products at this plant for the current fiscal year. For the fiscal year 1921 it is believed that the receipts will more than cover all expenses, including the heavy overhead now entailed by a large and expensive force of chemists, engineers, and construction and repair men. Following is an estimate of receipts for 1921 on the basis of 300 days of operation:</p> <table><tr><td>150 units of potash per day, at \$2 per unit.....</td><td>\$90,000</td></tr><tr><td>1 ton of carbon per day, at \$300 per ton.....</td><td>90,000</td></tr><tr><td>20 pounds of iodine per day, at \$4 per pound.....</td><td>24,000</td></tr><tr><td>1,600 pounds of sulphate of ammonia per day, at \$4 per cwt....</td><td>19,000</td></tr><tr><td></td><td>223,000</td></tr></table> <p>The results so far obtained indicate beyond doubt that the production of potash from kelp can be made a commercial success, but a number of questions need more complete investigation before the matter can be finally submitted to the public. This will take at least another year. It has been demonstrated that not less than 500,000 tons of raw kelp per annum are available in the vicinity of the department's plant at Summerville. It is assumed, therefore, that, when it is conclusively shown what profits are obtainable from the treatment of kelp by the process developed by the department, plants will be established sufficient in capacity to utilize the raw material available. The benefit to the public, therefore, from the successful outcome of these experiments seems to be assured and certainly justifies the appropriation recommended.</p> |   |   | 150 units of potash per day, at \$2 per unit..... | \$90,000 | 1 ton of carbon per day, at \$300 per ton..... | 90,000             | 20 pounds of iodine per day, at \$4 per pound..... | 24,000 | 1,600 pounds of sulphate of ammonia per day, at \$4 per cwt.... | 19,000         |                            | 223,000    |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| 150 units of potash per day, at \$2 per unit.....  | \$90,000  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| 1 ton of carbon per day, at \$300 per ton.....   | 90,000  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| 20 pounds of iodine per day, at \$4 per pound.....   | 24,000  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
| 1,600 pounds of sulphate of ammonia per day, at \$4 per cwt....  | 19,000  |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |
|  | 223,000   |   |   |          |  |                    |  |        |   |                |                            |            |   |    |                         |          |   |   |                         |          |   |    |  |  |   |   |               |  |            |            |                               |  |  |  |                         |  |          |          |                          |  |  |       |            |  |           |          |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.                                     |             |                        |                     | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|-------------|------------------------|---------------------|---|---|
| <i>General Expenses, Bureau of Soils—Continued.</i>   |             |                        |                     |   |   |
|   | Employees.  | Rate.                  | Estimated.<br>1921. | Expended.<br>1919.  |   |
|   |             |                        | <i>Number.</i>      | <i>Number.</i>  |   |
| Salaries:   |             |                        |                     |   |   |
| Scientist in charge.....per annum..   | \$3,240.00  | 1                      | 1                   |   |   |
| Manager of operations.....do.....   | 2,750.00    | 1                      | 1                   |   |   |
| Chief chemist.....do.....   | 2,500.00    | 1                      | 1                   |   |   |
| Chemist.....do.....   | 2,220.00    | 1                      | 1                   |   |   |
| Analytical chemists.....do.....   | 1,620.00    | ..                     | 2 (temp.).          |   |   |
| Junior chemist.....do.....  | 1,400.00    | ..                     | 1 (temp.).          |   |   |
| Associate mechanical engineer.....do.....   | 2,500.00    | ..                     | 1 (temp.).          |   |   |
| Harvester engineer.....do.....  | 1,380.00    | 1                      | 2 (1 temp.).        |   |   |
| Foremen of kelp harvester.....do.....   | 2,100.00    | 2                      | 2 (1 temp.).        |   |   |
| General mechanic.....do.....  | 1,800.00    | 1                      | 1                   |   |   |
| General mechanic.....do.....  | 1,680.00    | 1                      | 1 (temp.).          |   |   |
| General mechanic.....do.....  | 1,620.00    | 1                      | 1                   |   |   |
| General mechanic.....do.....  | 1,560.00    | 1                      | 1                   |   |   |
| General mechanic.....do.....  | 1,500.00    | 1                      | 1                   |   |   |
| Electrician.....do.....   | 1,800.00    | 1                      | 1                   |   |   |
| Clerks.....do.....  | 1,680.00    | ..                     | 1 (temp.).          |   |   |
| Clerks.....do.....  | 1,560.00    | ..                     | 1 (temp.).          |   |   |
| Clerks.....do.....  | 1,500.00    | 1                      | 1 (temp.).          |   |   |
| Clerks.....do.....  | 1,200.00    | 1                      | 1 (temp.).          |   |   |
| Kelp drier house foreman.....do.....  | 1,620.00    | 1                      | 1 (temp.).          |   |   |
| Carpenter.....do.....   | 1,560.00    | 1                      | 1                   |   |   |
| Carpenter.....do.....   | 1,440.00    | ..                     | 1 (temp.).          |   |   |
| Evaporator operators.....do.....  | 1,500.00    | 2                      | 1                   |   |   |
| Lixiviator operator.....do.....   | 1,440.00    | 1                      | ..                  |   |   |
| Hoist operator.....do.....  | 1,380.00    | 1                      | 1                   |   |   |
| Kelp drier operators.....do.....  | 1,380.00    | 3                      | 2                   |   |   |
| Kelp drier operator.....do.....   | 1,200.00    | ..                     | 1 (temp.).          |   |   |
| Charcoal treater operators.....do.....  | 1,260.00    | 4                      | ..                  |   |   |
| Salt drier operators.....do.....  | 1,200.00    | 2                      | ..                  |   |   |
| Stock room attendant.....do.....  | 1,260.00    | 1                      | 1 (temp.).          |   |   |
| Deckhands.....do.....   | 1,200.00    | 3                      | 2 (temp.).          |   |   |
| Watchman.....do.....  | 1,000.00    | 1                      | 1                   |   |   |
| Watchman.....do.....  | 900.00      | 1                      | 3 (temp.).          |   |   |
| Wages:  |             |                        |                     |   |   |
| Temporary carpenters, brick masons, electricians, mechanics, laborers, deckhands, etc., \$6 to \$3.25.....per diem.....   |             | 25                     | 95                  |   |   |
|   |             | 61                     | 131                 |   |   |
| Salaries.....   | \$56,290.00 |                        | \$41,478.95         |   |   |
| Wages.....  | 26,052.00   |                        | 23,500.00           |   |   |
| Other objects of expenditure:   |             |                        |                     |   |   |
| Traveling expenses.....   | 750.00      |                        | 1,599.26            |   |   |
| Equipment and material.....   | 82,860.00   |                        | 46,968.70           |   |   |
| Miscellaneous items.....  | 26,948.00   |                        | 7,282.31            |   |   |
| Total.....  |             | 192,900.00             | 120,829.22          |   |   |
| (38) For general administrative expenses connected with the above-mentioned lines of investigation ( <i>acts June 3, 1902, vol. 32, p. 297, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i> ) \$4,000.00 |             |                        |                     |   |   |
| Appropriation for 1911.....   | \$5,440     | Estimate for 1912..... | \$5,140             |   |   |
| Appropriation for 1912.....   | 4,640       | Estimate for 1913..... | 4,280               |   |   |
| Appropriation for 1913.....   | 4,280       | Estimate for 1914..... | 3,800               |   |   |
| Appropriation for 1914.....   | 3,800       | Estimate for 1915..... | 3,200               |   |   |
| Appropriation for 1915.....   | 3,200       | Estimate for 1916..... | 4,000               |   |   |
| Appropriation for 1916.....   | 3,200       | Estimate for 1917..... | 4,000               |   |   |
| Appropriation for 1917.....   | 4,000       | Estimate for 1918..... | 4,000               |   |   |
| Appropriation for 1918.....   | 4,000       | Estimate for 1919..... | 4,000               |   |   |
| Appropriation for 1919.....   | 4,000       | Estimate for 1920..... | 4,000               |   |   |
| Appropriation for 1920.....   | 4,000       | Estimate for 1921..... | 4,000               |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

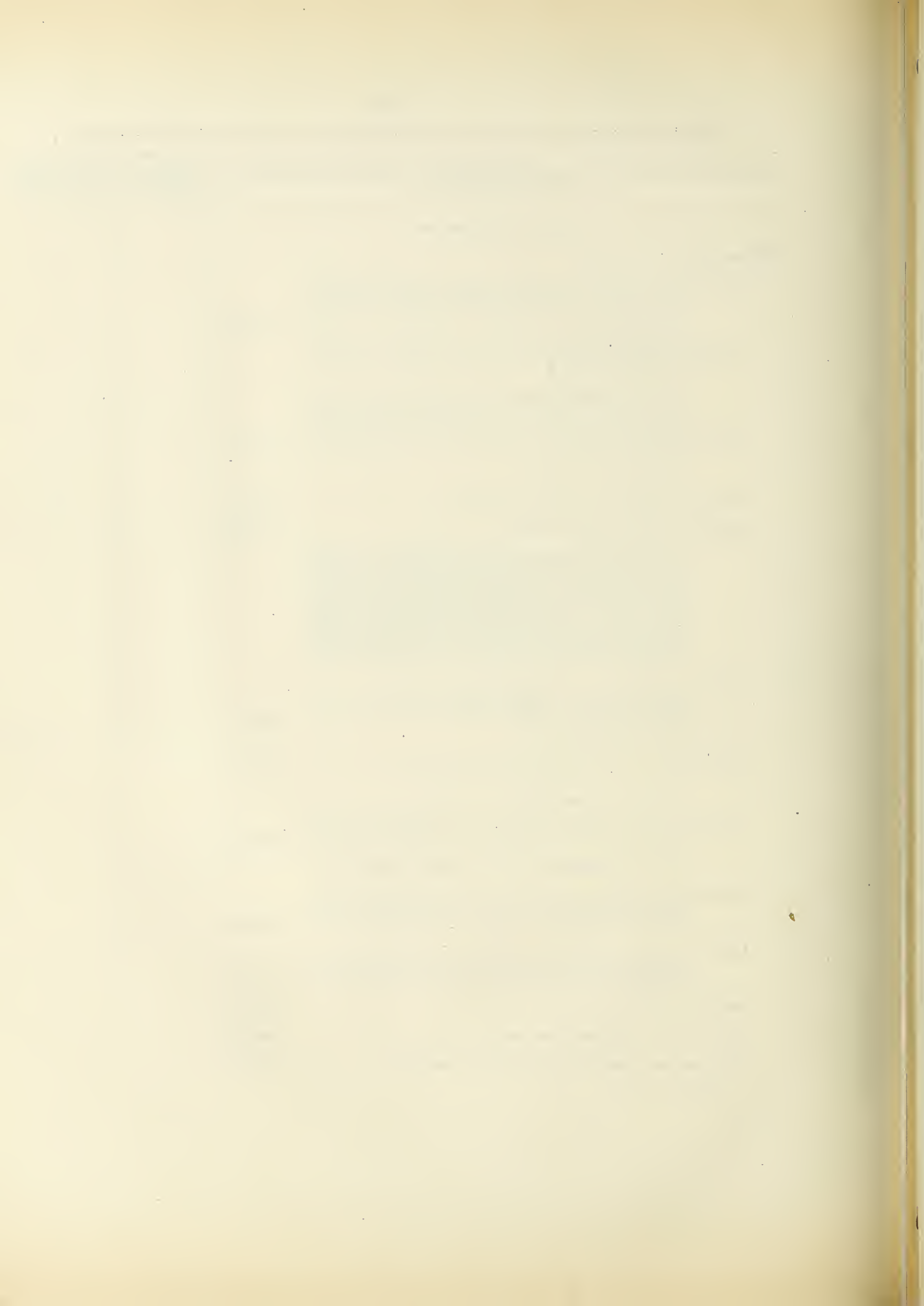
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.       |            |                        |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Soils—Continued.</i>   |            |                        |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921.       | Expended, 1919. |   |   |
| Salaries:   |            | Number.                | Number.         |   |   |
| Clerk.....per annum..   | \$1,000.00 | 1 (temp.)              | 1 (temp.)       |   |   |
| Messenger.....do.....   | 720.00     | ..                     | 1 (temp.)       |   |   |
| Watchmen.....do.....  | 720.00     | ..                     | 2 (temp.)       |   |   |
| Messenger boys.....do.....  | 480.00     | ..                     | 2 (temp.)       |   |   |
| Wages:  |            |                        |                 |   |   |
| Miscellaneous temporary laborers, \$2.50 to \$1.50.....per diem..   |            | ..                     | 3               |   |   |
|   |            | 1                      | 9               |   |   |
| Salaries.....   |            | \$700.00               | \$916.67        |   |   |
| Wages.....  |            |                        | 552.50          |   |   |
| Other objects of expenditure:   |            |                        |                 |   |   |
| Stationery.....   |            | 800.00                 | 474.72          |   |   |
| Traveling expenses.....   |            |                        | 184.76          |   |   |
| Equipment and material.....   |            | 1,500.00               | 1,227.98        |   |   |
| Telephone and telegraph service.....  |            | 300.00                 | 250.90          |   |   |
| Miscellaneous items.....  |            | 700.00                 | 580.23          |   |   |
| Total.....  |            | 4,000.00               | 4,187.76        |   |   |
| In all, for general expenses .....  |            |                        |                 | \$539,235.00  | \$417,075.00  |
| Appropriation for 1911.....   | \$193,600  | Estimate for 1912..... | \$228,700       |   |   |
| Appropriation for 1912.....   | 213,740    | Estimate for 1913..... | 284,370         |   |   |
| Appropriation for 1913.....   | 250,880    | Estimate for 1914..... | 315,400         |   |   |
| Appropriation for 1914.....   | 230,400    | Estimate for 1915..... | 299,020         |   |   |
| Appropriation for 1915.....   | 299,815    | Estimate for 1916..... | 298,215         |   |   |
| Appropriation for 1916.....   | 265,515    | Estimate for 1917..... | 288,735         |   |   |
| Appropriation for 1917.....   | 433,735    | Estimate for 1918..... | 291,515         |   |   |
| Appropriation for 1918.....   | 291,515    | Estimate for 1919..... | 417,075         |   |   |
| Appropriation for 1919.....   | 417,075    | Estimate for 1920..... | 435,735         |   |   |
| Appropriation for 1920.....   | 417,075    | Estimate for 1921..... | 539,235         |   |   |
| <i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i> |            |                        |                 |   |   |
| GENERAL EXPENSES—BUREAU OF SOILS.   |            |                        |                 |   |   |
| 1 clerk, \$1,000 per annum.   |            |                        |                 |   |   |
| Total for Bureau of Soils .....   |            |                        |                 | 620,095.00  | 491,235.00  |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

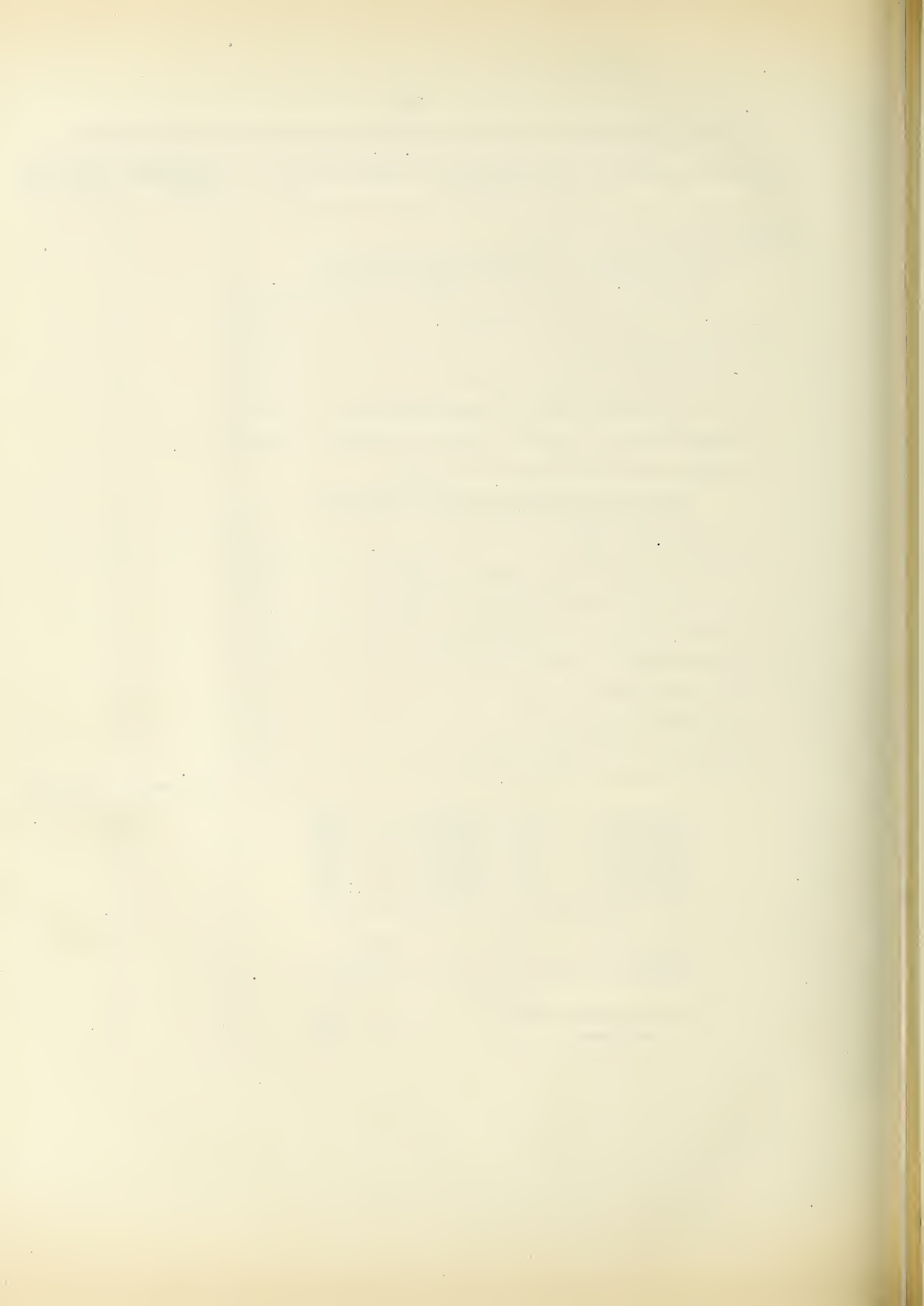
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| BUREAU OF ENTOMOLOGY.  |   |   |
| <i>Salaries, Bureau of Entomology—</i>   |   |   |
| (1) One entomologist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Apr. 23, 1904, vol. 33, p. 276, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i> ) .....   | \$5,000.00  |   |
| (2) <b>One chief clerk and executive assistant, \$2,250, changed to 1 chief clerk, \$2,250</b>   |   |   |
| NOTE.—This change in designation is recommended in order to shorten the title and make it conform with that of similar officers in other bureaus.  |   |   |
| (3) One chief clerk (in lieu of 1 chief clerk and executive assistant, \$2,250) ( <i>same acts</i> ) .....   | 2,250.00  |   |
| NOTE.—See note under item 2.   |   |   |
| (4) One administrative assistant ( <i>same acts</i> ) .....  | 2,250.00  |   |
| (5) One executive clerk ( <i>submitted</i> ) .....   | 1,980.00  |   |
| NOTE.—In the estimates for 1920 provision was made for the addition of several higher salaried positions in order to afford promotions for deserving clerks and for the dropping of a number of low grade positions. The increases were not allowed by Congress, but the low grade places were eliminated, resulting in a net loss of \$4,600 in the statutory roll of the bureau. With the increased work of the bureau, additional high-grade clerical assistants should be secured to take charge of supervisory work, accounting, etc. The new place of executive clerk under this item and the four clerical places recommended under items 8 and 9 are urgently needed for this purpose. |   |   |
| (6) One editor ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Apr. 23, 1904, vol. 33, p. 276, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1</i> ) .....   | 2,250.00  |   |
| (7) One financial clerk ( <i>same acts</i> ) .....   | 1,800.00  |   |
| (8) Six clerks, class 4 (increase of 2) ( <i>same acts</i> ) .....   | 10,800.00   |   |
| NOTE.—See note under item 5.   |   |   |
| (9) Eleven clerks, class 3 (increase of 4, 2 by transfer from lump fund for truck crop insects, and 2 new places) ( <i>same acts</i> ) ..  | 17,600.00   |   |
| NOTE.—For explanation as to the new places see note under item 5.  |   |   |
| (10) Eighteen clerks, class 2 (increase of 2 by transfer from lump funds for cereal and forage insects and preventing spread of moths) ( <i>same acts</i> ) .....  | 25,200.00   |   |
| (11) Twenty-five clerks, class 1 (increase of 3 by transfer from lump funds for bee culture, forest insects, and deciduous fruit insects) ( <i>same acts</i> ) .....   | 30,000.00   |   |
| (12) Eight clerks, at \$1,000 each ( <i>same acts</i> ) .....  | 8,000.00  |   |
| (13) One insect delineator ( <i>same acts</i> ) .....  | 1,600.00  |   |
| (14) Two insect delineators, at \$1,400 each ( <i>same acts</i> ) .....  | 2,800.00  |   |





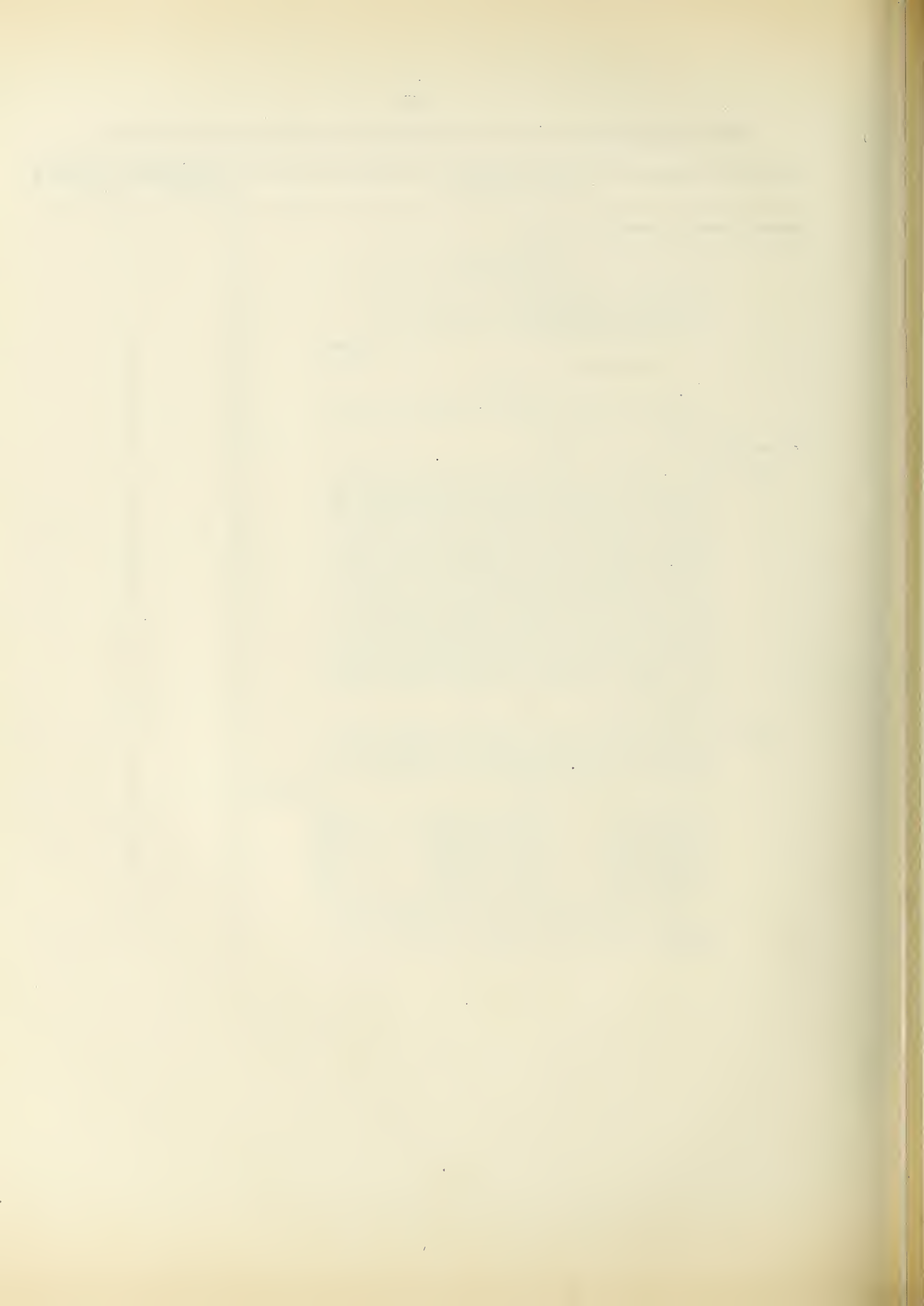
## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|--|---|---|------------------------------|-----------|-------------------------|-----------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|
| <i>Salaries, Bureau of Entomology—Continued.</i>   |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (15) Two entomological draftsmen, at \$1,400 each ( <i>R. S.</i> , p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Apr. 23, 1904, vol. 33, p. 276, sec. 1; July 24, 1919, vol. 41, p. 255, sec. 1)-----   | \$2, 800. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (16) One entomological draftsman ( <i>same acts</i> )-----   | 1, 080. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (17) One photographer ( <i>same acts</i> )-----  | 1, 200. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (18) One entomological preparator ( <i>same acts</i> )-----  | 1, 000. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (19) Four entomological preparators, at \$840 each ( <i>same acts</i> )----  | 3, 360. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (20) Eight entomological preparators, at \$720 each ( <i>same acts</i> )--   | 5, 760. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (21) <b>【Seven entomological preparators, at \$600 each】</b>   |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—It has been impossible to fill these places to advantage. All but two are now vacant, and these two are filled by temporary appointees. It is therefore recommended that they be dropped.  |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (22) One laborer ( <i>same acts</i> )-----   | 1, 080. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (23) Two messengers or laborers, at \$900 each ( <i>same acts</i> )-----   | 1, 800. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (24) One messenger or laborer ( <i>same acts</i> )-----  | 840. 00   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (25) Three messengers or laborers, at \$720 each ( <i>same acts</i> )-----   | 2, 160. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (26) Six messenger boys, at \$480 each ( <i>same acts</i> )-----   | 2, 880. 00  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (27) One laborer ( <i>same acts</i> )-----   | 540. 00   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (28) One laborer ( <i>same acts</i> )-----   | 480. 00   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (29) Two charwomen, at \$480 each ( <i>same acts</i> )-----  | 960. 00   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (30) Three charwomen, at \$240 each ( <i>same acts</i> )-----  | 720. 00   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|  | <hr/>   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|  | \$138, 190. 00  | \$124, 010. 00  |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| <table><tr><td>Appropriations for 1911.....</td><td>\$29, 280</td><td>Estimates for 1912.....</td><td>\$60, 130</td></tr><tr><td>Appropriations for 1912.....</td><td>60, 130</td><td>Estimates for 1913.....</td><td>58, 630</td></tr><tr><td>Appropriations for 1913.....</td><td>58, 750</td><td>Estimates for 1914.....</td><td>62, 660</td></tr><tr><td>Appropriations for 1914.....</td><td>60, 960</td><td>Estimates for 1915.....</td><td>68, 150</td></tr><tr><td>Appropriations for 1915.....</td><td>69, 050</td><td>Estimates for 1916.....</td><td>69, 050</td></tr><tr><td>Appropriations for 1916.....</td><td>69, 530</td><td>Estimates for 1917.....</td><td>99, 180</td></tr><tr><td>Appropriations for 1917.....</td><td>99, 180</td><td>Estimates for 1918.....</td><td>103, 900</td></tr><tr><td>Appropriations for 1918.....</td><td>102, 180</td><td>Estimates for 1919.....</td><td>115, 330</td></tr><tr><td>Appropriations for 1919.....</td><td>115, 330</td><td>Estimates for 1920.....</td><td>128, 610</td></tr><tr><td>Appropriations for 1920.....</td><td>124, 010</td><td>Estimates for 1921.....</td><td>138, 190</td></tr></table> |   |   | Appropriations for 1911..... | \$29, 280 | Estimates for 1912..... | \$60, 130 | Appropriations for 1912..... | 60, 130 | Estimates for 1913..... | 58, 630 | Appropriations for 1913..... | 58, 750 | Estimates for 1914..... | 62, 660 | Appropriations for 1914..... | 60, 960 | Estimates for 1915..... | 68, 150 | Appropriations for 1915..... | 69, 050 | Estimates for 1916..... | 69, 050 | Appropriations for 1916..... | 69, 530 | Estimates for 1917..... | 99, 180 | Appropriations for 1917..... | 99, 180 | Estimates for 1918..... | 103, 900 | Appropriations for 1918..... | 102, 180 | Estimates for 1919..... | 115, 330 | Appropriations for 1919..... | 115, 330 | Estimates for 1920..... | 128, 610 | Appropriations for 1920..... | 124, 010 | Estimates for 1921..... | 138, 190 |
| Appropriations for 1911.....   | \$29, 280   | Estimates for 1912.....                                       | \$60, 130                    |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1912.....   | 60, 130   | Estimates for 1913.....                                       | 58, 630                      |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1913.....   | 58, 750   | Estimates for 1914.....                                       | 62, 660                      |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1914.....   | 60, 960   | Estimates for 1915.....                                       | 68, 150                      |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1915.....   | 69, 050   | Estimates for 1916.....                                       | 69, 050                      |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1916.....   | 69, 530   | Estimates for 1917.....                                       | 99, 180                      |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1917.....   | 99, 180   | Estimates for 1918.....                                       | 103, 900                     |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1918.....   | 102, 180  | Estimates for 1919.....                                       | 115, 330                     |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1919.....   | 115, 330  | Estimates for 1920.....                                       | 128, 610                     |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1920.....   | 124, 010  | Estimates for 1921.....                                       | 138, 190                     |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—Apparent increase, \$14,180; actual increase, \$4,580, as follows:   |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| <i>New places.</i>   |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| 1 executive clerk.....   | \$1, 980  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| 2 clerks, class 4.....   | 3, 600  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| 2 clerks, class 3.....   | 3, 200  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|  | <hr/>   | \$8, 780  |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| <i>Places dropped.</i>   |   |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| 7 entomological assistants, at \$600 each.....   | 4, 200  |   |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Actual increase.....   | <hr/>   | 4, 580  |                              |           |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |                              |         |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |



NOTE.—There is a decrease in the above item of \$2,280, due to the transfer to the statutory roll of this bureau of 1 clerk of class 1 and the transfer to the statutory roll of the Office of the Secretary of 1 fireman at \$1,080.





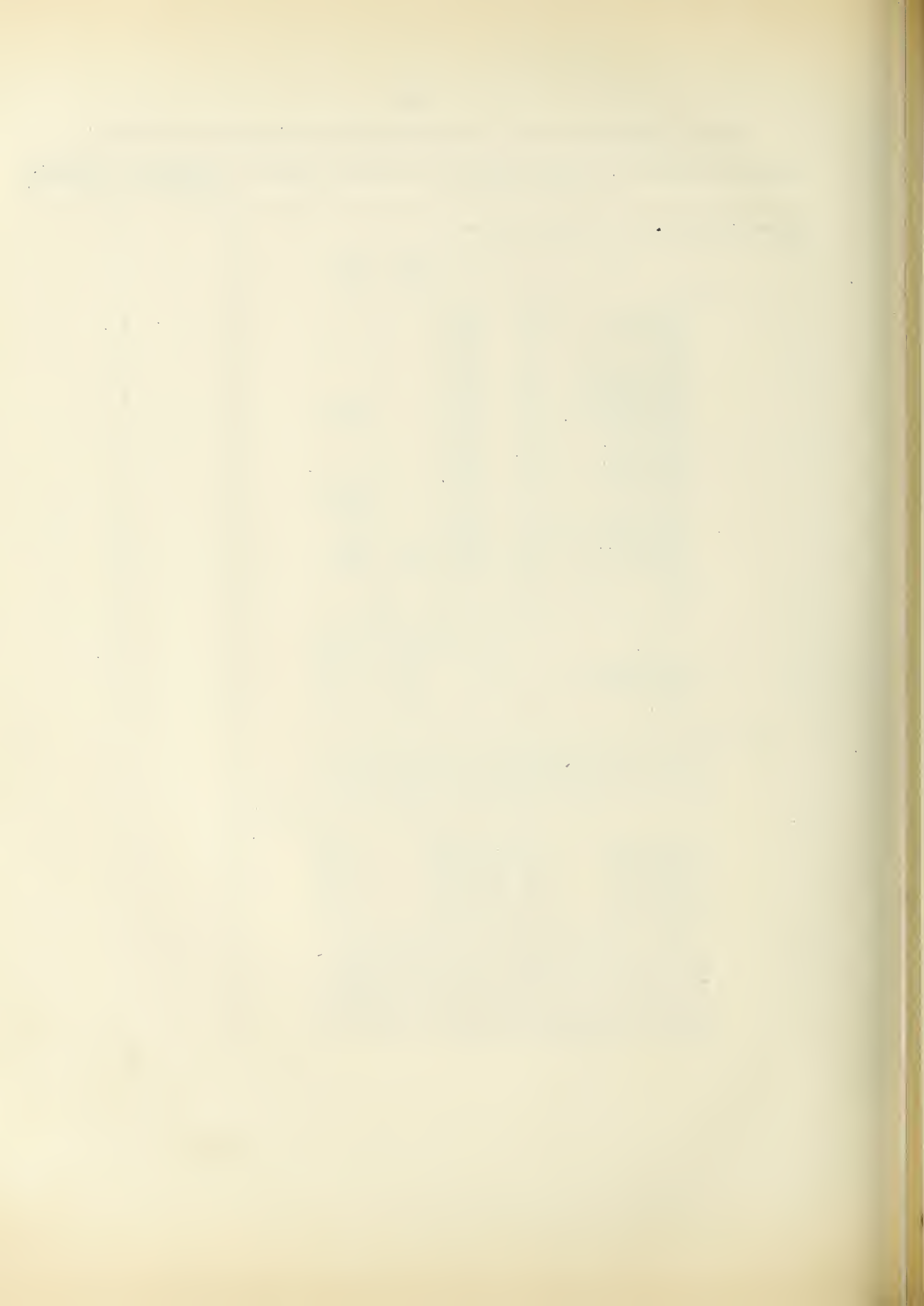
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-------------------------|---|---|
| <i>General Expenses, Bureau of Entomology—Continued.</i>  |            |                  |                         |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.         |   |   |
| Salaries:   |            | Number.          | Number.                 |   |   |
| Entomologist in charge.....per annum..  | \$4,000.00 | 1                | 1                       |   |   |
| Entomologist.....do.....  | 2,520.00   | 1                | ..                      |   |   |
| Insect physiologist.....do.....   | 2,520.00   | 1                | ..                      |   |   |
| Insect physiologist.....do.....   | 2,250.00   | ..               | 1                       |   |   |
| Mycocentomologist.....do.....   | 2,500.00   | ..               | 1                       |   |   |
| Specialist.....do.....  | 2,400.00   | 1                | ..                      |   |   |
| Specialist.....do.....  | 1,980.00   | 1                | 1                       |   |   |
| Entomological assistants.....do.....  | 2,250.00   | 2                | 2                       |   |   |
| Entomological assistant.....do.....   | 2,160.00   | 1                | 1                       |   |   |
| Entomological assistant.....do.....   | 2,000.00   | 1                | 1                       |   |   |
| Entomological assistant.....do.....   | 1,980.00   | 1                | 1                       |   |   |
| Entomological assistant.....do.....   | 1,920.00   | ..               | 1                       |   |   |
| Entomological assistant.....do.....   | 1,800.00   | 1                | 4 (1 temp.)             |   |   |
| Entomological assistant.....do.....   | 1,740.00   | ..               | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 2,200.00   | ..               | 1 (temp.)               |   |   |
| Scientific assistant.....do.....  | 1,980.00   | 1                | ..                      |   |   |
| Scientific assistants.....do.....   | 1,800.00   | 6                | 5                       |   |   |
| Scientific assistants.....do.....   | 1,740.00   | 2                | 1                       |   |   |
| Scientific assistants.....do.....   | 1,680.00   | 2                | ..                      |   |   |
| Scientific assistants.....do.....   | 1,620.00   | 3                | ..                      |   |   |
| Scientific assistants.....do.....   | 1,600.00   | ..               | 4 (1 temp.)             |   |   |
| Scientific assistant.....do.....  | 1,560.00   | 1                | ..                      |   |   |
| Scientific assistants.....do.....   | 1,500.00   | ..               | 5 (2 temp.; 3 pt. time) |   |   |
| Scientific assistant.....do.....  | 1,400.00   | ..               | 2 (temp.)               |   |   |
| Scientific assistant.....do.....  | 1,380.00   | 1                | 1                       |   |   |
| Insect delineator.....do.....   | 1,400.00   | ..               | 1                       |   |   |
| Assistant entomological inspector.....do.....   | 1,500.00   | 1                | 1 (temp.)               |   |   |
| Special field agent.....do.....   | 1,620.00   | ..               | 2 (temp.)               |   |   |
| Field assistants.....do.....  | 1,500.00   | 3 (temp.)        | ..                      |   |   |
| Field assistant.....do.....   | 1,200.00   | ..               | 1 (temp.)               |   |   |
| Field assistants, \$900 to \$600.....do.....  | ..         | 6 (temp.)        | 6 (temp.)               |   |   |
| Collaborator.....do.....  | 12.00      | 3                | 3                       |   |   |
| Wages:  |            |                  |                         |   |   |
| Laborer.....do.....   | 600.00     | ..               | 1                       |   |   |
| Miscellaneous temporary labor, \$5 to \$4.....per diem.....   | ..         | ..               | 2                       |   |   |
|   |            | 40               | 52                      |   |   |
| Salaries.....   |            | \$70,083.00      | \$60,559.19             |   |   |
| Wages.....  |            |                  | 270.00                  |   |   |
| Other objects of expenditure:   |            |                  |                         |   |   |
| Traveling expenses.....   |            | 10,800.00        | 7,947.69                |   |   |
| Equipment and material.....   |            | 6,517.00         | 6,307.24                |   |   |
| Miscellaneous items.....  |            | 16,100.00        | 15,740.40               |   |   |
| Total.....  |            | 103,500.00       | 90,824.52               |   |   |

- (33) For investigations of insects affecting cereal and forage crops, including a special investigation of the Hessian fly and the chinch bug **[\$147,060]** (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1*). \$155,660.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$25,000 | Estimate for 1912..... | \$35,000 |
| Appropriation for 1912..... | 50,000   | Estimate for 1913..... | 50,000   |
| Appropriation for 1913..... | 75,000   | Estimate for 1914..... | 80,000   |
| Appropriation for 1914..... | 90,000   | Estimate for 1915..... | 114,500  |
| Appropriation for 1915..... | 114,500  | Estimate for 1916..... | 114,500  |
| Appropriation for 1916..... | 114,500  | Estimate for 1917..... | 109,660  |
| Appropriation for 1917..... | 114,660  | Estimate for 1918..... | 123,260  |
| Appropriation for 1918..... | 123,260  | Estimate for 1919..... | 122,060  |
| Appropriation for 1919..... | 122,060  | Estimate for 1920..... | 147,060  |
| Appropriation for 1920..... | 147,060  | Estimate for 1921..... | 155,660  |

NOTE.—There is an apparent increase in the above item of \$8,600, but taking into consideration the transfer to the statutory roll of 1 clerk of class 2, the actual increase is \$10,000, which amount is desired for the extension of alfalfa weevil investigations. Methods of control of this insect have been developed for moderately sized areas, but the work should be conducted on a scale which will permit the application of these methods to considerable areas in order to furnish demonstrational proof of their effectiveness. It is also proposed to carry the work into newly infested regions and to conduct complete and careful surveys to establish more definitely the exact limits of present infestation.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------|---|---|
| <i>General Expenses; Bureau of Entomology—Continued.</i>  |            |                  |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries:   |            | Number.          | Number.         |   |   |
| Entomologist in charge.....per annum..  | \$3,750.00 | 1                | 1               |   |   |
| Entomologist in charge.....do.....  | 3,000.00   | 1                | 1               |   |   |
| Entomological assistants.....do.....  | 2,500.00   | 2                | 2               |   |   |
| Entomological assistant.....do.....   | 2,250.00   | 1                | 1               |   |   |
| Entomological assistants.....do.....  | 2,200.00   | 1                | 2 (1 temp.)     |   |   |
| Entomological assistants.....do.....  | 2,100.00   | 2                | 3 (1 temp.)     |   |   |
| Entomological assistants.....do.....  | 2,000.00   | 1                | 2               |   |   |
| Entomological assistant.....do.....   | 1,980.00   | 1                | 2 (1 pt. time)  |   |   |
| Entomological assistants.....do.....  | 1,920.00   | 3                | 1 (pt. time)    |   |   |
| Entomological assistants.....do.....  | 1,800.00   | 1                | 2 (1 pt. time)  |   |   |
| Preparer of entomological charts.....do.....  | 2,000.00   | 1 (pt. time)     | 1 (pt. time)    |   |   |
| Specialists.....do.....   | 1,800.00   | 1                | 2 (1 pt. time)  |   |   |
| Assistant.....do.....   | 2,040.00   | 1                | 1               |   |   |
| Scientific assistants.....do.....   | 2,250.00   | 2                | 2               |   |   |
| Scientific assistants.....do.....   | 1,980.00   | 2                | 8 (1 temp.)     |   |   |
| Scientific assistants.....do.....   | 1,800.00   | 10 (1 new)       | 1               |   |   |
| Scientific assistant.....do.....  | 1,620.00   | 1                | 8 (2 temp.)     |   |   |
| Scientific assistants.....do.....   | 1,600.00   | 4 (2 new)        | 1               |   |   |
| Scientific assistants.....do.....   | 1,500.00   | 5                | 1 (temp.)       |   |   |
| Scientific assistants.....do.....   | 1,500.00   | 2                | 1 (temp.)       |   |   |
| Scientific assistant.....do.....  | 1,440.00   | 1                | 5               |   |   |
| Scientific assistants.....do.....   | 1,400.00   | 5                | 3 (2 temp.)     |   |   |
| Scientific assistants.....do.....   | 1,380.00   | 1                | 4 (3 temp.)     |   |   |
| Scientific assistants.....do.....   | 1,200.00   | 1                | 1 (temp.)       |   |   |
| Scientific assistant.....do.....  | 1,000.00   | 1                | 1 (temp.)       |   |   |
| Special field agent.....do.....   | 1,800.00   | 1                | 1               |   |   |
| Special field agent.....do.....   | 1,560.00   | 1                | 1               |   |   |
| Special field agent.....do.....   | 1,400.00   | 1                | 1               |   |   |
| Assistant entomological inspector.....do.....   | 1,200.00   | 1                | 3 (1 temp.)     |   |   |
| Entomological laboratory assistants.....do.....   | 1,080.00   | 2                | 1 (temp.)       |   |   |
| Entomological laboratory assistant.....do.....  | 1,000.00   | 1                | 2 (temp.)       |   |   |
| Entomological preparators.....do.....   | 720.00     | 1                | 1 (temp.)       |   |   |
| Field assistant.....do.....   | 1,800.00   | 3 (temp.)        | 1               |   |   |
| Field assistants.....do.....  | 1,200.00   | 1                | 1 (temp.)       |   |   |
| Cataloger.....do.....   | 1,200.00   | 1                | 4 (3 temp.)     |   |   |
| Clerk.....do.....   | 1,400.00   | 1                | 1 (temp.)       |   |   |
| Clerks.....do.....  | 1,200.00   | 1                | 1 (temp.)       |   |   |
| Clerk.....do.....   | 1,100.00   | 1                | 1 (temp.)       |   |   |
| Clerk.....do.....   | 1,080.00   | 1                | 1 (temp.)       |   |   |
| Clerk.....do.....   | 1,000.00   | 1                | 1 (temp.)       |   |   |
| Field assistants, watchmen, elevator conductors, and collaborators, \$900 to \$12.....do.....   |            | 11 (3 temp.)     | 12 (4 temp.)    |   |   |
| Wages:  |            |                  |                 |   |   |
| Laborer.....per annum..   | 1,080.00   | 1 (temp.)        | 1 (temp.)       |   |   |
| Laborers, \$800 to \$900.....do.....  |            | 2 (temp.)        | 4 (temp.)       |   |   |
| Fireman.....per diem..  | 3.00       | 1                | 1 (temp.)       |   |   |
|   |            | 69               | 90              |   |   |
| Salaries.....   |            | \$90,282.00      | \$83,637.15     |   |   |
| Wages.....  |            | 2,340.00         | 3,125.25        |   |   |
| Other objects of expenditure:   |            |                  |                 |   |   |
| Traveling expenses.....   |            | 24,480.00        | 14,558.29       |   |   |
| Equipment and material.....   |            | 15,000.00        | 3,121.84        |   |   |
| Miscellaneous items.....  |            | 23,558.00        | 15,394.87       |   |   |
| Total.....  |            | 155,660.00       | 119,857.40      |   |   |

- (34) [To enable the Secretary of Agriculture to meet the emergency caused by the establishment of the European corn borer in Massachusetts, New York, and other States, and to provide means for the control and prevention of spread of this insect in these States or elsewhere in the United States, in cooperation with the State or States concerned, including rent outside of the District of Columbia, employment of labor in the city of Washington and elsewhere, and all other necessary expenses, \$250,000]

NOTE.—The estimate for the control of the European corn borer has been omitted. On July 29, 1919, the department recommended to the Congress, in the form of a supplemental estimate, that the sum of \$500,000, in addition to the appropriation of \$250,000 carried in the appropriation act for 1920, be included in the first deficiency bill and be made available immediately in order that the campaign against the corn borer might be more effectively prosecuted. This matter was still under consideration by the Congress on October 15, when the regular estimates for 1921 were prepared and submitted to the Secretary of the Treasury. It seemed desirable, in the circumstances, to omit the item for the corn-borer work from these estimates with the understanding that, if favorable





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                             |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
|--|---|---|-----------------------------|----------|------------------------|----------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|---------|------------------------|---------|
| <i>General Expenses, Bureau of Entomology—Continued.</i>   |   |   |                             |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| <p>action was not taken on the estimate of July 29, it would be necessary for the department, at the beginning of the next regular session of Congress, to submit another estimate for inclusion in the agricultural appropriation bill for 1921. The deficiency bill has since passed both houses of Congress, but it includes no additional funds for the corn-borer work. The department, therefore, will at the proper time submit another supplemental estimate.</p>  |   |   |                             |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| <p>(35) For investigations of insects affecting southern field crops, including insects affecting cotton, tobacco, rice, sugar cane, and so forth, and the cigarette beetle and Argentine ant, <b>[\$100,400]</b> \$178,400, of which sum \$25,000 shall be immediately available (acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec 1; July 24, 1919, vol. 41, pp. 255,256, sec. 1) ----- \$178,400.00</p>  |   |   |                             |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| <table><tr><td>Appropriation for 1911.....</td><td>\$47,000</td><td>Estimate for 1912.....</td><td>\$47,160</td></tr><tr><td>Appropriation for 1912.....</td><td>47,160</td><td>Estimate for 1913.....</td><td>47,160</td></tr><tr><td>Appropriation for 1913.....</td><td>47,160</td><td>Estimate for 1914.....</td><td>50,000</td></tr><tr><td>Appropriation for 1914.....</td><td>50,000</td><td>Estimate for 1915.....</td><td>49,000</td></tr><tr><td>Appropriation for 1915.....</td><td>59,000</td><td>Estimate for 1916.....</td><td>69,000</td></tr><tr><td>Appropriation for 1916.....</td><td>59,000</td><td>Estimate for 1917.....</td><td>64,400</td></tr><tr><td>Appropriation for 1917.....</td><td>64,400</td><td>Estimate for 1918.....</td><td>74,400</td></tr><tr><td>Appropriation for 1918.....</td><td>89,400</td><td>Estimate for 1919.....</td><td>89,400</td></tr><tr><td>Appropriation for 1919.....</td><td>89,400</td><td>Estimate for 1920.....</td><td>85,400</td></tr><tr><td>Appropriation for 1920.....</td><td>100,400</td><td>Estimate for 1921.....</td><td>178,400</td></tr></table>  |   |   | Appropriation for 1911..... | \$47,000 | Estimate for 1912..... | \$47,160 | Appropriation for 1912..... | 47,160 | Estimate for 1913..... | 47,160 | Appropriation for 1913..... | 47,160 | Estimate for 1914..... | 50,000 | Appropriation for 1914..... | 50,000 | Estimate for 1915..... | 49,000 | Appropriation for 1915..... | 59,000 | Estimate for 1916..... | 69,000 | Appropriation for 1916..... | 59,000 | Estimate for 1917..... | 64,400 | Appropriation for 1917..... | 64,400 | Estimate for 1918..... | 74,400 | Appropriation for 1918..... | 89,400 | Estimate for 1919..... | 89,400 | Appropriation for 1919..... | 89,400 | Estimate for 1920..... | 85,400 | Appropriation for 1920..... | 100,400 | Estimate for 1921..... | 178,400 |
| Appropriation for 1911.....  | \$47,000  | Estimate for 1912.....  | \$47,160                    |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1912.....  | 47,160  | Estimate for 1913.....  | 47,160                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1913.....  | 47,160  | Estimate for 1914.....  | 50,000                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1914.....  | 50,000  | Estimate for 1915.....  | 49,000                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1915.....  | 59,000  | Estimate for 1916.....  | 69,000                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1916.....  | 59,000  | Estimate for 1917.....  | 64,400                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1917.....  | 64,400  | Estimate for 1918.....  | 74,400                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1918.....  | 89,400  | Estimate for 1919.....  | 89,400                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1919.....  | 89,400  | Estimate for 1920.....  | 85,400                      |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| Appropriation for 1920.....  | 100,400   | Estimate for 1921.....  | 178,400                     |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |
| <p>NOTE.—There is an increase in this item of \$78,000, which amount is necessary for the expansion of the following projects:</p> <p>(a) \$70,000 for investigation of the cotton boll weevil.<sup>1</sup> The possibility of practical control of the weevil in the Mississippi Delta region by the use of calcium arsenate in dust form has been demonstrated. In some instances the per acre yield of cotton has been doubled by the application of this insecticide. New types of both hand and power machines for applying the poison have also been developed. Further improvement in both poison and machines in the interest of economy is possible, and investigations to this end should be made. It is also necessary that several additional field stations be established in different parts of the cotton belt in order to determine the exact methods essential for success in different environments. It is recommended that of the \$70,000 requested for this work \$25,000 be made immediately available so that the bureau may proceed with the establishment of new stations, appointment of assistants, purchase of machinery, etc., next spring in preparation for the summer campaign.</p> <p>(b) \$8,000 for investigation of tobacco insects. For some years this investigation has been conducted under an allotment of \$27,000. With the increased cost of labor and materials, traveling expenses, etc., this amount is insufficient to conduct properly the work which should be undertaken. The investigation has reached a stage where more intensive and extensive experiments are required. A remedy for tobacco hornworm has been discovered, but the most economical application of the remedy can only be determined by a series of farm experiments sufficiently widely separated to give an average of conditions. A number of important problems with reference to the best methods of applying the insecticide remain to be worked out. There are also questions relating to dusting machinery which need to be investigated.</p> |   |   |                             |          |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |         |                        |         |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Entomology—Continued.

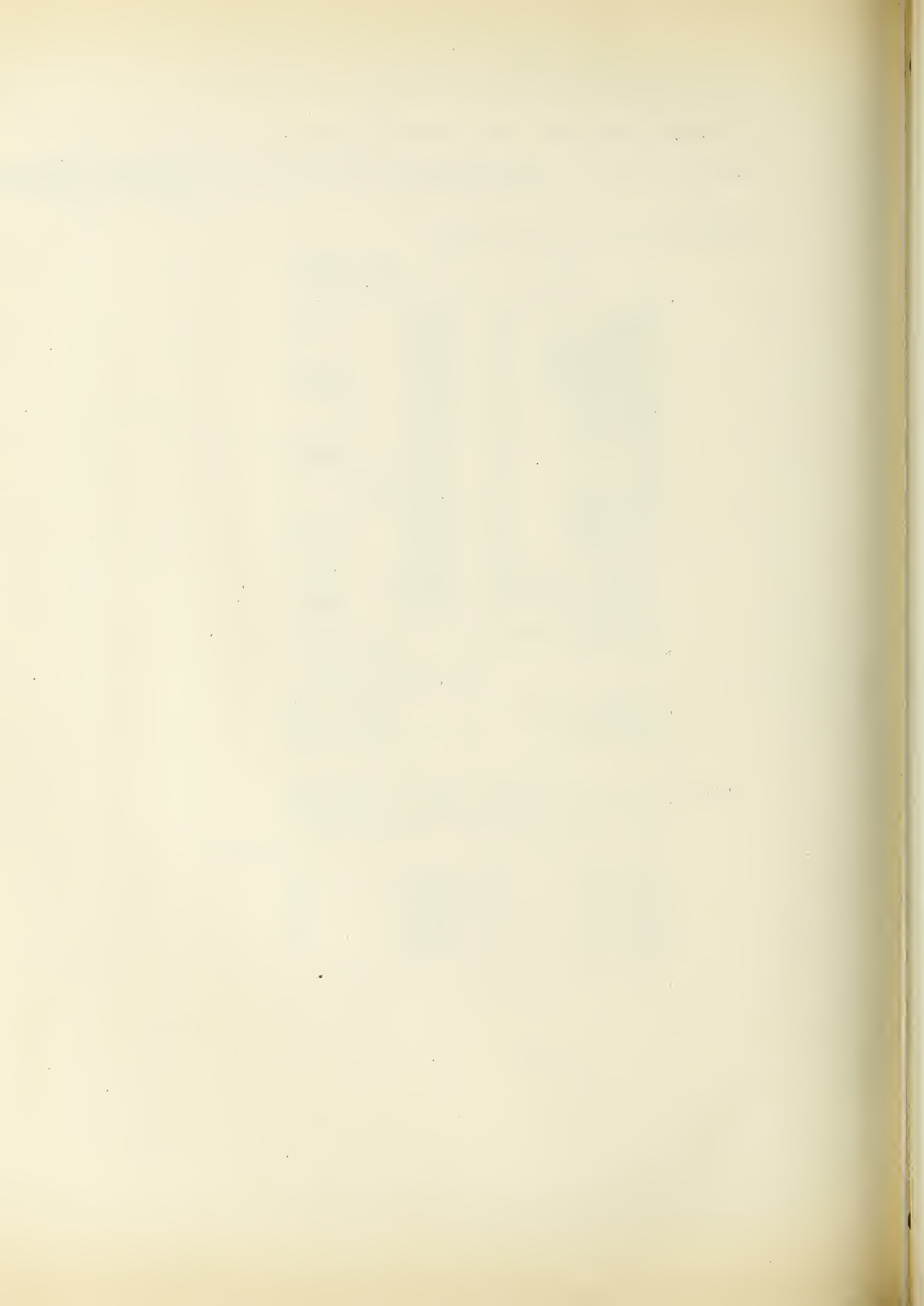
| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919.      |
|--|------------|---------------------|-------------------------|
| Salaries:  |            | Number.             | Number.                 |
| Entomologist in charge.....per annum..   | \$4,000.00 | 1                   | 1                       |
| Specialist.....do.....   | 3,000.00   | 1                   | 1                       |
| Entomologists.....do.....  | 3,000.00   | 1                   | 1 (pt. time)            |
| Entomologists.....do.....  | 2,750.00   | 1                   | 1                       |
| Entomological assistants.....do.....   | 2,520.00   | 2                   | 1                       |
| Entomological assistants.....do.....   | 2,300.00   | 1                   | 1                       |
| Entomological assistants.....do.....   | 2,250.00   | 1                   | 4 (1 temp.)             |
| Entomological assistants.....do.....   | 1,980.00   | 1                   | 1                       |
| Entomological assistants.....do.....   | 1,920.00   | 1                   | 2 (1 temp.)             |
| Entomological assistants.....do.....   | 1,800.00   | 1                   | 1 (temp.)               |
| Entomological assistants.....do.....   | 1,200.00   | 1                   | 1                       |
| Scientific assistant.....do.....   | 2,000.00   | 1                   | 1                       |
| Scientific assistants.....do.....  | 1,800.00   | 3                   | 3                       |
| Scientific assistant.....do.....   | 1,740.00   | 1                   | 1                       |
| Scientific assistant.....do.....   | 1,560.00   | 1                   | 1                       |
| Scientific assistant.....do.....   | 1,500.00   | 1                   | 1                       |
| Scientific assistants.....do.....  | 1,400.00   | 1                   | 3 (1 temp.; 1 pt. time) |
| Scientific assistant.....do.....   | 1,200.00   | 1                   | 1                       |
| Expert.....do.....   | 1,980.00   | 1 (pt. time)        | 1 (pt. time)            |
| Expert.....do.....   | 1,800.00   | 1                   | 1 (pt. time)            |
| Mechanical engineer.....do.....  | 2,400.00   | 1 (new)             | 1                       |
| Cotton entomologists.....do.....   | 1,800.00   | 10 (new)            | 1                       |
| Cotton entomologist.....do.....  | 1,680.00   | 1                   | 1                       |
| Cotton entomologist.....do.....  | 1,500.00   | 1                   | 3 (1 temp.)             |
| Cotton entomologists.....do.....   | 1,400.00   | 2                   | 2                       |
| Cotton entomologists.....do.....   | 1,380.00   | 1                   | 1 (pt. time)            |
| Cotton entomologist.....do.....  | 1,200.00   | 1                   | 1 (temp.)               |
| Insect delineator.....do.....  | 1,600.00   | 1                   | 1                       |
| Photographer.....do.....   | 1,200.00   | 1                   | 2 (1 temp.)             |
| Clerk.....do.....  | 1,200.00   | 4 (new)             | 1                       |
| Entomological laboratory assistants.....do.....  | 1,200.00   | 1                   | 1 (temp.)               |
| Entomological laboratory assistant.....do.....   | 1,080.00   | 1                   | 3 (temp.)               |
| Field assistant.....do.....  | 1,500.00   | 4 (temp.)           | 3 (temp.)               |
| Field assistants.....do.....   | 1,200.00   | 5                   | 5                       |
| Field assistants.....do.....   | 1,020.00   | 5                   | 5                       |
| Collaborators, \$12 to \$1.....do.....   |            | 25 (temp.)          | 31 (temp.)              |
| Agent, entomological preparators,<br>field assistants and messenger<br>boy, \$900 to \$480.....do..... |            | 4 (temp.)           | 5 (temp.)               |
| Wages:   |            |                     |                         |
| Laborers, \$900 to \$360.....do.....   |            | 80                  | 86                      |
| Salaries.....  |            | \$87,592.00         | \$53,804.81             |
| Wages.....   |            | 2,400.00            | 700.33                  |
| Other objects of expenditure:  |            |                     |                         |
| Traveling expenses.....  |            | 23,500.00           | 12,584.23               |
| Equipment and material.....  |            | 27,550.00           | 2,486.52                |
| Miscellaneous items.....   |            | 37,358.00           | 16,492.07               |
| Total.....   |            | 178,400.00          | 86,067.96               |

- (36) For investigations of insects affecting forests [\$48,790]  
 (acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902,  
 vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270,  
 secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24,  
 1919, vol. 41, pp. 255, 256, sec. 1).....\$47,590.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$14,000 | Estimate for 1912..... | \$44,750 |
| Appropriation for 1912..... | 44,750   | Estimate for 1913..... | 44,750   |
| Appropriation for 1913..... | 44,750   | Estimate for 1914..... | 50,000   |
| Appropriation for 1914..... | 44,750   | Estimate for 1915..... | 54,790   |
| Appropriation for 1915..... | 54,790   | Estimate for 1916..... | 54,790   |
| Appropriation for 1916..... | 54,790   | Estimate for 1917..... | 50,770   |
| Appropriation for 1917..... | 50,770   | Estimate for 1918..... | 50,770   |
| Appropriation for 1918..... | 50,770   | Estimate for 1919..... | 49,870   |
| Appropriation for 1919..... | 49,870   | Estimate for 1920..... | 48,790   |
| Appropriation for 1920..... | 48,790   | Estimate for 1921..... | 47,590   |

NOTE.—There is a decrease in this item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.





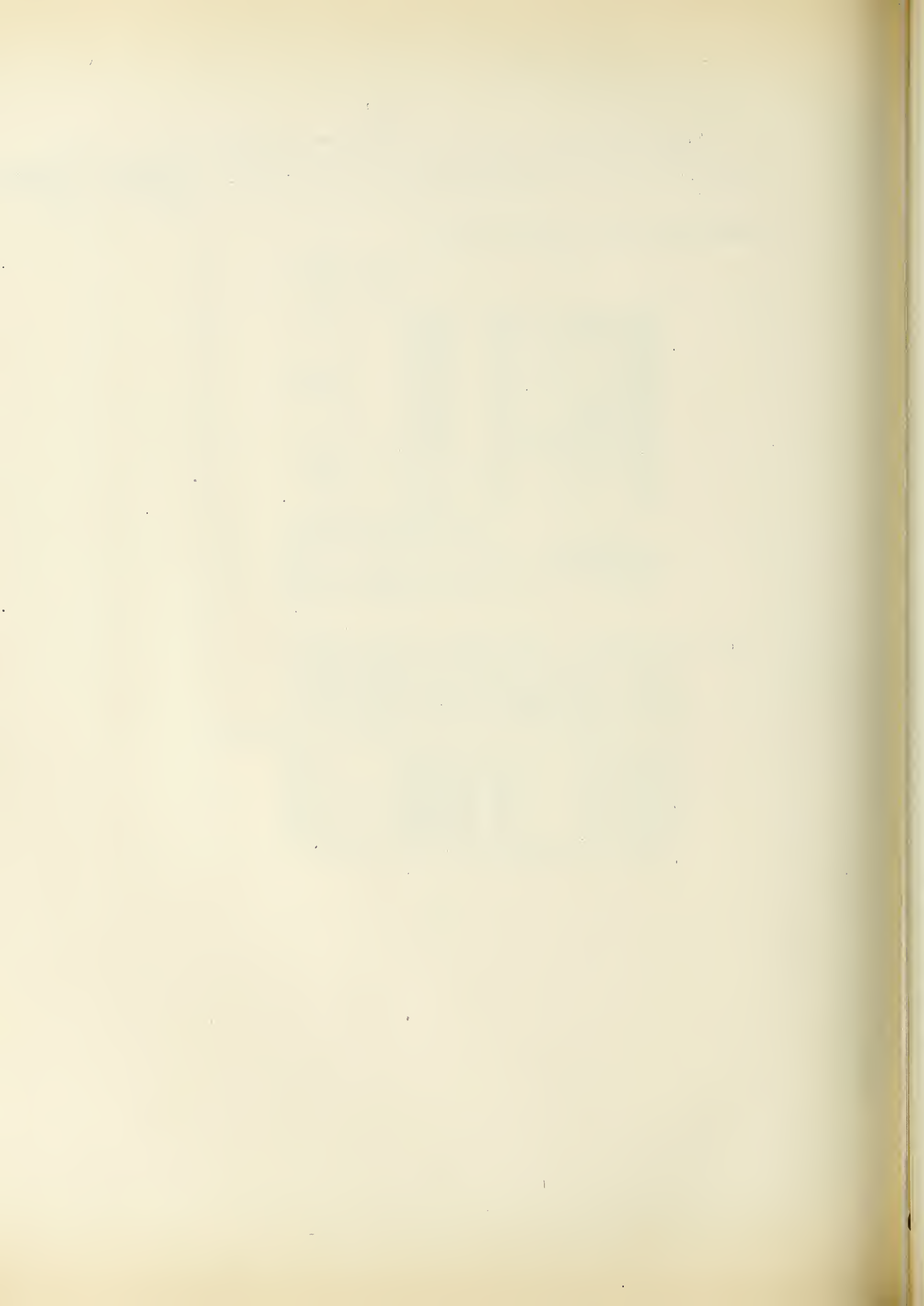
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Entomology—Continued.</i>  |            |                  |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries:   |            | Number.          | Number.         |   |   |
| Forest entomologist.....per annum..   | \$4,000.00 | 1                | 1               |   |   |
| Forest entomologist.....do.....   | 3,500.00   | 1                | 1               |   |   |
| Assistant forest entomologist.....do.....   | 2,500.00   | 1                | 1               |   |   |
| Expert.....do.....  | 2,250.00   | 1                | 1               |   |   |
| Specialist.....do.....  | 2,500.00   | 1                | 1               |   |   |
| Specialists.....do.....   | 2,250.00   | 4                | 4               |   |   |
| Specialist.....do.....  | 1,920.00   | 1                | 1               |   |   |
| Specialists.....do.....   | 1,800.00   | 1                | 2 (pt. time)    |   |   |
| Specialist.....do.....  | 1,740.00   | 1                | 1               |   |   |
| Specialists.....do.....   | 1,600.00   | 1                | 2 (1 temp.)     |   |   |
| Scientific assistants.....do.....   | 1,400.00   | 2                | 2               |   |   |
| Scientific assistants.....do.....   | 1,380.00   | 2                | 2               |   |   |
| Scientific assistant.....do.....  | 1,300.00   | 1                | 1               |   |   |
| Scientific assistant.....do.....  | 1,200.00   | 1                | 1               |   |   |
| Entomological rangers.....do.....   | 1,200.00   | 4                | 4               |   |   |
| Assistant entomological inspector.....do.....   | 1,200.00   | 1                | 1               |   |   |
| Entomological preparators.....do.....   | 720.00     | 2 (temp.)        | 3 (temp.)       |   |   |
| Clerk.....do.....   | 1,200.00   | 1                | 1 (temp.)       |   |   |
| Clerks, \$960 to \$600.....do.....  |            | 1                | 4 (temp.)       |   |   |
| Collaborators, \$12 to \$1.....do.....  |            | 6                | 5               |   |   |
| Wages:  |            |                  |                 |   |   |
| Laborer.....do.....   | 1,080.00   | 1                | 1               |   |   |
| Laborer.....do.....   | 480.00     | 1                | 1 (temp.)       |   |   |
|   |            | 31               | 39              |   |   |
| Salaries.....   |            | \$42,871.00      | \$40,169.07     |   |   |
| Wages.....  |            |                  | 1,297.33        |   |   |
| Other objects of expenditure:   |            |                  |                 |   |   |
| Traveling expenses.....   |            | 1,919.00         | 6,927.70        |   |   |
| Equipment and material.....   |            | 1,700.00         | 1,750.26        |   |   |
| Miscellaneous items.....  |            | 1,100.00         | 2,237.27        |   |   |
| Total.....  |            | 47,590.00        | 52,381.63       |   |   |

- (37) For investigations of insects affecting truck crops, including insects affecting the potato, sugar beet, cabbage, onion, tomato, beans, peas, and so forth, and insects affecting stored products [**\$134,960**] (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1*)—\$131,760.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$16,250 | Estimate for 1912..... | \$19,100 |
| Appropriation for 1912..... | 19,100   | Estimate for 1913..... | 19,700   |
| Appropriation for 1913..... | 30,000   | Estimate for 1914..... | 35,000   |
| Appropriation for 1914..... | 35,000   | Estimate for 1915..... | 41,500   |
| Appropriation for 1915..... | 41,500   | Estimate for 1916..... | 41,500   |
| Appropriation for 1916..... | 41,500   | Estimate for 1917..... | 37,760   |
| Appropriation for 1917..... | 42,760   | Estimate for 1918..... | 47,760   |
| Appropriation for 1918..... | 47,760   | Estimate for 1919..... | 67,760   |
| Appropriation for 1919..... | 67,760   | Estimate for 1920..... | 84,960   |
| Appropriation for 1920..... | 134,960  | Estimate for 1921..... | 131,760  |

NOTE.—There is a decrease in this item of \$3,200, due to the transfer to the statutory roll of 2 clerks of class 3.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Entomology—Continued.</i>  |            |                  |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
|   |            | <i>Number.</i>   | <i>Number.</i>  |   |   |
| Salaries:   |            |                  |                 |   |   |
| Entomologist in charge, truck crop insect investigations . . . per annum . .  | \$4,000.00 | 1                | 1               |   |   |
| Entomologist in charge, stored product insect investigations . . . do . . .   | 3,240.00   | 1                | ..              |   |   |
| Entomologist in charge, stored product insect investigations . . . do . . .   | 2,750.00   | ..               | 1               |   |   |
| Entomologists . . . do . . .  | 2,500.00   | 3                | 1               |   |   |
| Entomological assistant . . . do . . .  | 2,250.00   | ..               | 1               |   |   |
| Entomological assistant . . . do . . .  | 2,200.00   | 1                | 1               |   |   |
| Entomological assistant . . . do . . .  | 2,000.00   | 1                | 1               |   |   |
| Entomological assistant . . . do . . .  | 1,980.00   | 1                | 1               |   |   |
| Entomological assistants . . . do . . .   | 1,800.00   | 2                | 1               |   |   |
| Entomological assistant . . . do . . .  | 1,600.00   | 1                | 1               |   |   |
| Preparator of entomological charts . . . do . . .   | 2,000.00   | 1 (pt. time)     | ..              |   |   |
| Scientific assistants . . . do . . .  | 2,000.00   | ..               | 2 (temp.)       |   |   |
| Scientific assistants . . . do . . .  | 1,800.00   | 3                | ..              |   |   |
| Scientific assistant . . . do . . .   | 1,680.00   | 1                | ..              |   |   |
| Scientific assistants . . . do . . .  | 1,600.00   | 4 (3 new)        | 1               |   |   |
| Scientific assistant . . . do . . .   | 1,580.00   | 1                | 1               |   |   |
| Scientific assistants . . . do . . .  | 1,560.00   | 3                | 3               |   |   |
| Scientific assistants . . . do . . .  | 1,500.00   | 2                | ..              |   |   |
| Scientific assistants . . . do . . .  | 1,400.00   | 2                | 2 (1 temp.)     |   |   |
| Scientific assistants . . . do . . .  | 1,380.00   | 1                | 2 (1 temp.)     |   |   |
| Scientific assistants . . . do . . .  | 1,200.00   | ..               | 2 (temp.)       |   |   |
| Scientific assistants . . . do . . .  | 1,000.00   | 1                | 2 (1 temp.)     |   |   |
| Special field agents . . . do . . .   | 1,800.00   | 2                | ..              |   |   |
| Special field agent . . . do . . .  | 1,700.00   | 1                | ..              |   |   |
| Special field agent . . . do . . .  | 1,680.00   | 1                | ..              |   |   |
| Special field agents . . . do . . .   | 1,600.00   | 2                | 2               |   |   |
| Special field agents . . . do . . .   | 1,500.00   | ..               | 2 (temp.)       |   |   |
| Assistant entomological inspector . . . do . . .  | 1,620.00   | 1                | ..              |   |   |
| Assistant entomological inspectors . . . do . . .   | 1,500.00   | 2                | ..              |   |   |
| Assistant entomological inspectors . . . do . . .   | 1,440.00   | 2                | ..              |   |   |
| Assistant entomological inspectors . . . do . . .   | 1,400.00   | 1                | ..              |   |   |
| Assistant entomological inspectors . . . do . . .   | 1,200.00   | 7                | ..              |   |   |
| Insect delineator . . . do . . .  | 1,400.00   | ..               | 1 (temp.)       |   |   |
| Entomological laboratory assistants . . . do . . .  | 1,080.00   | 3 (1 temp.)      | 1 (temp.)       |   |   |
| Entomological laboratory assistant . . . do . . .   | 1,000.00   | 1 (new)          | ..              |   |   |
| Field assistants . . . do . . .   | 1,200.00   | 3 (temp.)        | 1 (temp.)       |   |   |
| Field assistant . . . do . . .  | 1,080.00   | ..               | 1 (temp.)       |   |   |
| Expert . . . do . . .   | 1,980.00   | 1 (pt. time)     | 1 (pt. time)    |   |   |
| Clerks . . . do . . .   | 1,600.00   | ..               | 1 (temp.)       |   |   |
| Clerk . . . do . . .  | 1,400.00   | ..               | 1 (temp.)       |   |   |
| Clerks . . . do . . .   | 1,200.00   | ..               | 2 (temp.)       |   |   |
| Clerk . . . do . . .  | 1,000.00   | ..               | 1 (temp.)       |   |   |
| Collaborators, \$240 to \$12 . . . do . . .   |            | 9                | 8               |   |   |
| Messenger boys, field assistants, and clerks, \$900 to \$480 . . . do . . .   |            | 8 (temp.)        | 5 (temp.)       |   |   |
| Wages:  |            |                  |                 |   |   |
| Laborers, gardeners, and charwomen, \$840 to \$240 . . . do . . .   |            | 9 (temp.)        | 10 (temp.)      |   |   |
|   |            | 83               | 61              |   |   |
| Salaries . . .  |            | \$86,618.00      | \$37,903.24     |   |   |
| Wages . . .   |            | 7,260.00         | 806.67          |   |   |
| Other objects of expenditure:   |            |                  |                 |   |   |
| Traveling expenses . . .  |            | 13,345.00        | 5,387.90        |   |   |
| Equipment and material . . .  |            | 9,700.00         | 2,845.01        |   |   |
| Miscellaneous items . . .   |            | 14,837.00        | 6,051.00        |   |   |
| Total . . .   |            | 131,760.00       | 52,993.82       |   |   |



| Date  | Particulars | Debit  | Credit | Balance |
|-------|-------------|--------|--------|---------|
| 1890  | Jan 1       |        |        | 100.00  |
| Feb 1 | To Balance  |        | 100.00 | 200.00  |
| Mar 1 | By Cash     | 50.00  |        | 150.00  |
| Apr 1 | To Cash     |        | 50.00  | 200.00  |
| May 1 | By Cash     | 50.00  |        | 150.00  |
| Jun 1 | To Cash     |        | 50.00  | 200.00  |
| Jul 1 | By Cash     | 50.00  |        | 150.00  |
| Aug 1 | To Cash     |        | 50.00  | 200.00  |
| Sep 1 | By Cash     | 50.00  |        | 150.00  |
| Oct 1 | To Cash     |        | 50.00  | 200.00  |
| Nov 1 | By Cash     | 50.00  |        | 150.00  |
| Dec 1 | To Cash     |        | 50.00  | 200.00  |
| Total |             | 500.00 | 500.00 |         |

## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Entomology—Continued.

- (38) For investigations and demonstrations in bee culture **["\$35,000"]**  
*(acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1)* ----- **\$33,800.00**

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$10,000 | Estimate for 1912..... | \$11,160 |
| Appropriation for 191.....  | 15,000   | Estimate for 1913..... | 15,000   |
| Appropriation for 1913..... | 15,000   | Estimate for 1914..... | 16,000   |
| Appropriation for 1914..... | 15,000   | Estimate for 1915..... | 21,500   |
| Appropriation for 1915..... | 15,000   | Estimate for 1916..... | 15,000   |
| Appropriation for 1916..... | 15,000   | Estimate for 1917..... | 15,000   |
| Appropriation for 1917..... | 20,000   | Estimate for 1918..... | 20,000   |
| Appropriation for 1918..... | 20,000   | Estimate for 1919..... | 35,000   |
| Appropriation for 1919..... | 35,000   | Estimate for 1920..... | 35,000   |
| Appropriation for 1920..... | 35,000   | Estimate for 1921..... | 33,800   |

NOTE.—There is a decrease in this item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
| <b>Salaries:</b>  |            | <i>Number.</i>      | <i>Number.</i>     |
| Apiculturist.....per annum..                                | \$4,000.00 | 1                   | ..                 |
| Apiculturist.....do.....                                    | 3,750.00   | ..                  | 1                  |
| Apicultural assistant.....do.....                           | 3,000.00   | 1                   | ..                 |
| Apicultural assistant.....do.....                           | 2,750.00   | ..                  | 1                  |
| Apicultural assistant.....do.....                           | 1,600.00   | ..                  | 1 (temp.)          |
| Apiculturist in extension work.....do.....                  | 1,800.00   | 1                   | 1                  |
| Specialist.....do.....                                      | 1,980.00   | 1                   | 1                  |
| Preparator of entomological chart.....do.....               | 2,000.00   | ..                  | 1 (pt. time)       |
| Agents.....do.....  | 2,000.00   | 1                   | 2 (1 temp.)        |
| Agent.....do.....   | 1,560.00   | 1                   | ..                 |
| Agent.....do.....   | 1,440.00   | 1                   | 1                  |
| Agent.....do.....   | 1,160.00   | ..                  | 1 (temp.)          |
| Special field agents.....do.....                            | 2,000.00   | 2                   | 3                  |
| Special field agent.....do.....                             | 1,800.00   | 1                   | ..                 |
| Special field agent.....do.....                             | 1,600.00   | 1                   | 1                  |
| Special field agents.....do.....                            | 1,400.00   | 1                   | 2                  |
| Special field agent.....do.....                             | 1,200.00   | 1                   | 1                  |
| Clerk.....do.....   | 1,200.00   | ..                  | 1 (temp.)          |
| Agents, clerks, and collaborators \$900 to \$12.....do..... |            | 6 (3 temp.)         | 3                  |
| <b>Wages:</b>   |            |                     |                    |
| Laborer.....do.....   | 480.00     | ..                  | 1 (temp.)          |
|   |            | 19                  | 25                 |
| Salaries.....   |            | \$29,254.00         | \$25,162.75        |
| Wages.....  |            |                     | 236.00             |
| <b>Other objects of expenditures:</b>                       |            |                     |                    |
| Traveling expenses.....                                     |            | 1,800.00            | 2,662.47           |
| Equipment and material.....                                 |            | 500.00              | 254.37             |
| Miscellaneous items.....                                    |            | 2,246.00            | 2,068.46           |
| <b>Total.....</b>   |            | <b>33,800.00</b>    | <b>30,384.05</b>   |

- (39) For investigations of insects affecting tropical and sub-tropical fruits, including insects affecting the orange, lemon, grapefruit, mango, and so forth **["\$16,500"]** (*same acts*) ----- **24,500.00**

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$16,500 | Estimate for 1912..... | \$21,500 |
| Appropriation for 1912..... | 19,740   | Estimate for 1913..... | 19,740   |
| Appropriation for 1913..... | 21,500   | Estimate for 1914..... | 25,000   |
| Appropriation for 1914..... | 21,500   | Estimate for 1915..... | 20,100   |
| Appropriation for 1915..... | 20,100   | Estimate for 1916..... | 20,100   |
| Appropriation for 1916..... | 20,100   | Estimate for 1917..... | 17,100   |
| Appropriation for 1917..... | 17,100   | Estimate for 1918..... | 25,000   |
| Appropriation for 1918..... | 17,100   | Estimate for 1919..... | 16,500   |
| Appropriation for 1919..... | 16,500   | Estimate for 1920..... | 16,500   |
| Appropriation for 1920..... | 16,500   | Estimate for 1921..... | 24,500   |

NOTE.—An increase of \$8,000 is recommended in this item for the following purposes:

(a) \$5,000 for citrus-fruit insect investigations in California. Under this appropriation is conducted a very important and useful work in relation to the citrus industry in California, involving two stations. No increase of funds for this work has been made for nearly eight years, and the increase now requested will enable the undertaking of new work urgently needed to meet the demands made by the citrus industry on this department for specific information bearing on new phases of insect control. These new features relate particularly to the standardization

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-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185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 |
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Entomology—Continued.*

of methods for the production and utilization in orchard fumigation of liquid hydrocyanic acid, which is a new development and likely to replace older methods of orchard fumigation. Another important line of work is the control of citrus mealy bugs by control of the Argentine ant. The ant having a symbiotic relation with these mealy bugs, its control is the main feature in the protection of citrus groves from mealy bug injury.

(b) \$3,000 for citrus-fruit insect investigations in Florida. This work is in the same situation as that in California and there has been no increase in the appropriation for its support for eight years. The additional sum requested is needed for the necessary enlargement of this work and its extension to other Gulf States.

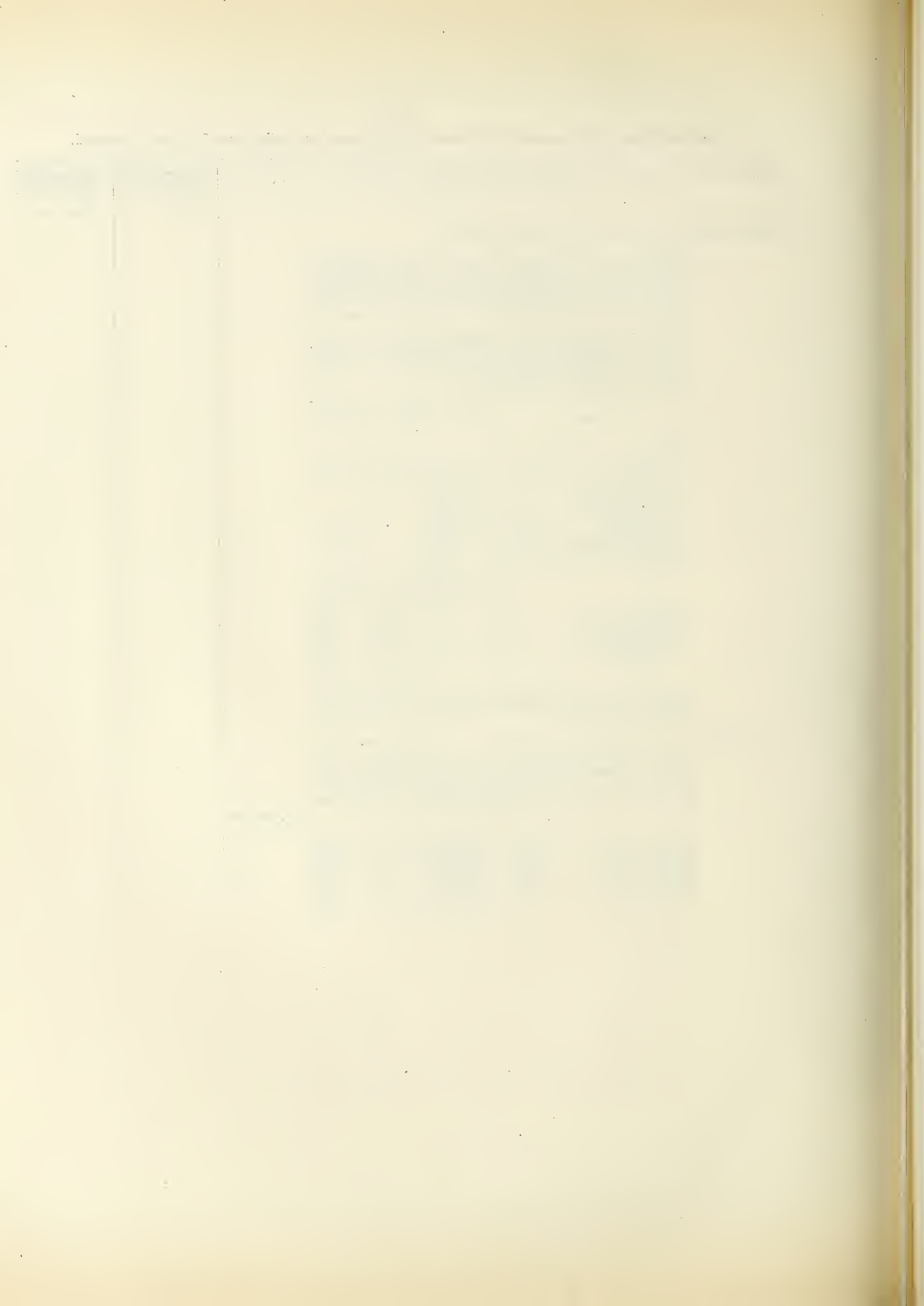
| Employees.                                     | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| Salaries:                                      |            | <i>Number.</i>      | <i>Number.</i>     |
| Entomologist and assistant                     |            | 1 (pt. time)        | 1 (pt. time)       |
| chief of bureau.....per annum..                | \$4,500.00 | 1                   | 1                  |
| Entomologist.....do.....                       | 2,500.00   | 1                   | 1                  |
| Entomological assistant.....do.....            | 2,400.00   | 1                   | 1                  |
| Entomological assistant.....do.....            | 2,200.00   | 1                   | 1                  |
| Entomological inspector.....do.....            | 1,600.00   | 1                   | 1                  |
| Scientific assistants.....do.....              | 1,800.00   | 2 (1 new)           | 1                  |
| Scientific assistant.....do.....               | 1,600.00   | 1                   | 1 (pt. time)       |
| Special field agent.....do.....                | 1,400.00   | 1                   | 1                  |
| Insect delineator.....do.....                  | 1,400.00   | 1                   | 1 (temp.)          |
| Entomological laboratory assistant.....do..... | 1,080.00   | 1                   | 1                  |
| Collaborators, \$60 and \$12.....do.....       |            | 2                   | 2                  |
| Wages:   |            |                     |                    |
| Gardener.....do.....                           | 600.00     | 1 (temp.)           | 1 (temp.)          |
|  |            | 11                  | 11                 |
| Salaries.....                                  |            | \$14,902.00         | \$7,702.50         |
| Wages.....                                     |            | 600.00              | 150.00             |
| Other objects of expenditure:                  |            |                     |                    |
| Traveling expenses.....                        |            | 3,700.00            | 1,169.89           |
| Equipment and material.....                    |            | 1,907.00            | 1,371.01           |
| Miscellaneous items.....                       |            | 3,398.00            | 2,512.69           |
| Construction work.....                         |            |                     | 1,050.00           |
| Total.....                                     |            | 24,500.00           | 13,956.09          |

<sup>1</sup> This construction work consisted of the following building: 1 portable potting shed and insectary as an addition to the tropical and subtropical greenhouse, near 12th and B Streets NW., Washington, D. C.

- (40) For investigations and control, in cooperation with the Federal Horticultural Board, of the Mediterranean and other fruit flies (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1*)..... \$32,000.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1913..... | \$35,000 | Estimate for 1913..... | \$35,000 |
| Appropriation for 1914..... | 33,200   | Estimate for 1914..... | 33,200   |
| Appropriation for 1915..... | 33,200   | Estimate for 1915..... | 33,200   |
| Appropriation for 1916..... | 33,200   | Estimate for 1916..... | 33,200   |
| Appropriation for 1917..... | 33,200   | Estimate for 1917..... | 33,200   |
| Appropriation for 1918..... | 33,200   | Estimate for 1918..... | 33,200   |
| Appropriation for 1919..... | 32,000   | Estimate for 1919..... | 32,000   |
| Appropriation for 1920..... | 32,000   | Estimate for 1920..... | 32,000   |
|                             |          | Estimate for 1921..... | 32,000   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Entomology—Continued.

| Employees.   | Rate.      | Estimated, 1921. | Expended, 1919.  |
|--|------------|------------------|------------------|
| <b>Salaries:</b>   |            | <i>Number.</i>   | <i>Number.</i>   |
| Entomologist and assistant chief of bureau.....per annum..     | \$4,500.00 | 1 (pt. time)     | 1 (pt. time)     |
| Entomologist.....do.....                                       | 2,500.00   | 1                | 1 (temp.)        |
| Assistant.....do.....  | 2,250.00   | 1                | 1                |
| Entomological explorer.....do.....                             | 1,800.00   | 2 (1 new)        | 1                |
| Specialist.....do.....   | 1,800.00   | 1                | 1                |
| Entomological inspector.....do.....                            | 1,920.00   | 1                | 1                |
| Entomological inspector.....do.....                            | 1,800.00   | 1                | 1                |
| Entomological assistant.....do.....                            | 1,800.00   | 1                | 1 (pt. time)     |
| Scientific assistant.....do.....                               | 2,000.00   | 1 (new)          | 1                |
| Scientific assistant.....do.....                               | 1,380.00   | 1                | 1                |
| Scientific assistant.....do.....                               | 1,200.00   | 1                | 1                |
| Clerk.....do.....  | 1,200.00   | 1                | 1 (temp.)        |
| Clerk.....do.....  | 1,100.00   | 1                | 1 (temp.)        |
| Special inspector and collaborators, \$300 to \$12.....do..... |            | 11 (6 new)       | 6 (3 temp.)      |
| Watchman.....do.....   | 720.00     | 1                | 1 (temp.)        |
|  |            | 18               | 18               |
| Salaries.....  |            | \$16,040.00      | \$17,821.54      |
| <b>Other objects of expenditure:</b>                           |            |                  |                  |
| Traveling expenses.....  |            | 5,000.00         | 2,708.76         |
| Equipment and material.....                                    |            | 1,500.00         | 1,226.30         |
| Miscellaneous items.....                                       |            | 9,460.00         | 5,805.78         |
| <b>Total.....</b>  |            | <b>32,000.00</b> | <b>27,562.38</b> |

- (41) For conducting investigations and study of the nature and habits of the pest known as the camphor thrip, for the purpose of discovering methods of control and applying methods of eradication or control already discovered (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1*) ----- \$5,000.00

Appropriation for 1920..... \$5,000 | Estimate for 1920..... \$5,000  
 Estimate for 1921..... 5,000

| Employees.                              | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|---|------------|------------------|------------------------------|
| <b>Salaries:</b>                        |            | <i>Number.</i>   | <i>Number.</i>               |
| Entomological inspector.....per annum.. | \$1,800.00 | 1 (new)          | 1                            |
| Scientific assistant.....do.....        | 1,400.00   | 1 (new)          | 1                            |
|   |            | 2                |                              |
| Salaries.....                           |            | \$3,200.00       |                              |
| <b>Other objects of expenditure:</b>    |            |                  |                              |
| Traveling expenses.....                 |            | 600.00           |                              |
| Equipment and material.....             |            | 600.00           |                              |
| Miscellaneous items.....                |            | 600.00           |                              |
| <b>Total.....</b>                       |            | <b>5,000.00</b>  |                              |

<sup>1</sup> No appropriation for fiscal year 1919.

- (42) For investigations, identification, and systematic classification of miscellaneous insects, including the study of insects affecting the health of man and domestic animals, household insects, and the importation and exchange of useful insects (*same acts*) ----- 62,330.00

Appropriation for 1911..... \$28,550 | Estimate for 1912..... \$19,740  
 Appropriation for 1912..... 19,740 | Estimate for 1913..... 19,740  
 Appropriation for 1913..... 19,740 | Estimate for 1914..... 30,000  
 Appropriation for 1914..... 54,280 | Estimate for 1915..... 54,280  
 Appropriation for 1915..... 54,280 | Estimate for 1916..... 54,280  
 Appropriation for 1916..... 54,280 | Estimate for 1917..... 57,980  
 Appropriation for 1917..... 57,980 | Estimate for 1918..... 56,380  
 Appropriation for 1918..... 56,380 | Estimate for 1919..... 52,330  
 Appropriation for 1919..... 52,330 | Estimate for 1920..... 52,330  
 Appropriation for 1920..... 62,330 | Estimate for 1921..... 62,330



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

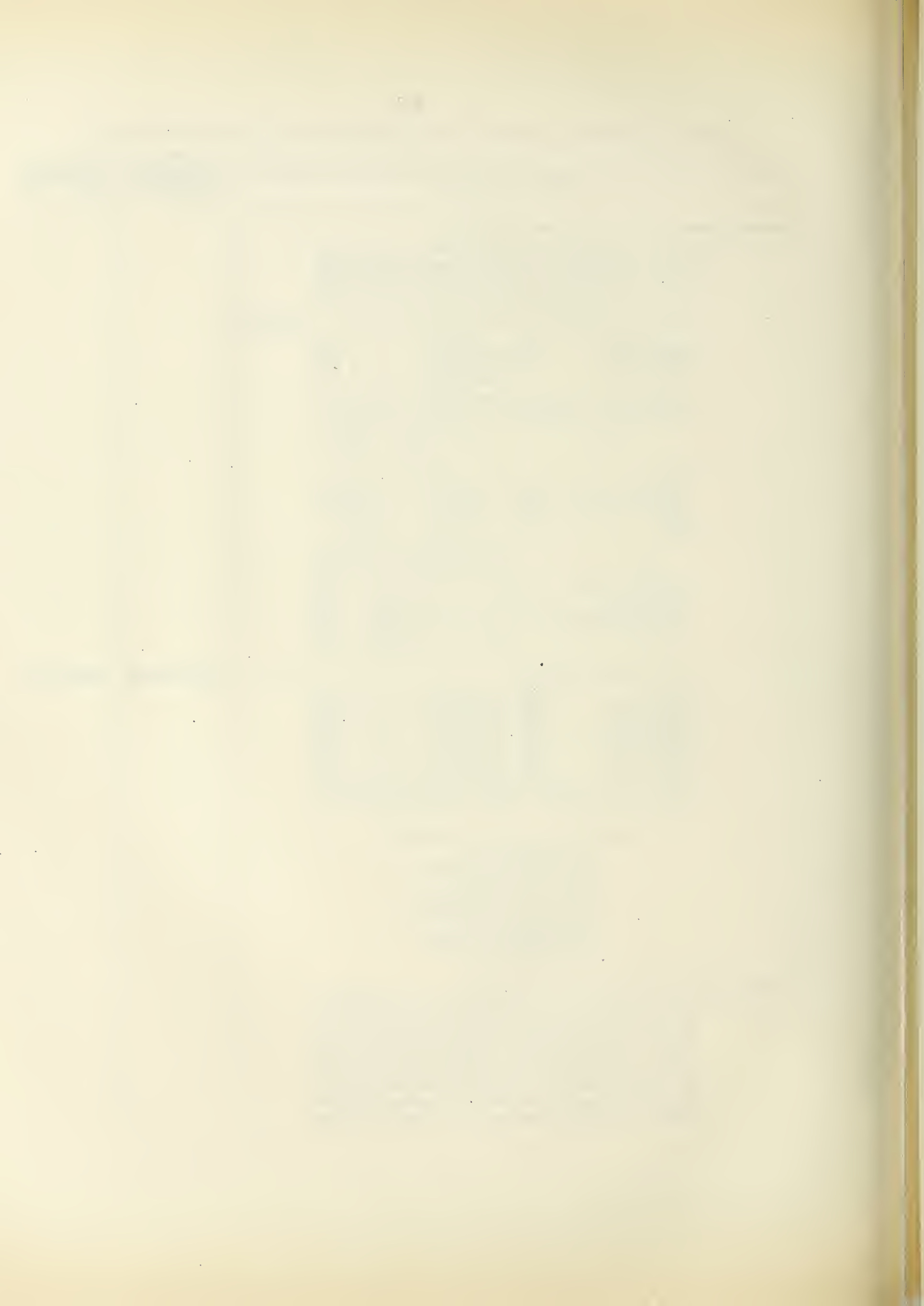
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |             |                     |                            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|-------------|---------------------|----------------------------|---|---|
| <i>General Expenses, Bureau of Entomology—Continued.</i>  |             |                     |                            |   |   |
| Employees.  | Rate.       | Estimated,<br>1921. | Expended,<br>1919.         |   |   |
| Salaries:   |             | <i>Number.</i>      | <i>Number.</i>             |   |   |
| Entomologist.....per annum..  | \$3,000.00  | 1                   | 1 (pt. time)               |   |   |
| Entomologist.....do.....  | 2,750.00    | 1                   | 1                          |   |   |
| Entomologist.....do.....  | 2,400.00    | 1                   | 1                          |   |   |
| Entomological assistant.....do.....   | 2,500.00    | 1                   | 1                          |   |   |
| Entomological assistants.....do.....  | 2,250.00    | 1                   | 4 (1 temp.;<br>1 pt. time) |   |   |
| Entomological assistants.....do.....  | 2,000.00    | 1                   | 2 (1 temp.)                |   |   |
| Entomological assistant.....do.....   | 1,920.00    | 1                   | ..                         |   |   |
| Entomological assistant.....do.....   | 1,800.00    | 1                   | ..                         |   |   |
| Entomological assistants.....do.....  | 1,740.00    | 2                   | 3                          |   |   |
| Assistants.....do.....  | 2,500.00    | 2                   | ..                         |   |   |
| Assistants.....do.....  | 2,250.00    | ..                  | 2                          |   |   |
| Assistant.....do.....   | 2,000.00    | 1                   | 1                          |   |   |
| Assistants.....do.....  | 1,800.00    | ..                  | 1 (temp.)                  |   |   |
| Mycoentomologist.....do.....  | 2,500.00    | 1                   | ..                         |   |   |
| Specialists.....do.....   | 2,500.00    | 1                   | ..                         |   |   |
| Specialists.....do.....   | 2,250.00    | 1                   | 2 (temp.)                  |   |   |
| Specialists.....do.....   | 1,980.00    | 1                   | ..                         |   |   |
| Specialists.....do.....   | 1,800.00    | 2 (temp.)           | ..                         |   |   |
| Scientific assistant.....do.....  | 1,800.00    | 1                   | ..                         |   |   |
| Scientific assistant.....do.....  | 1,740.00    | 1                   | 1                          |   |   |
| Scientific assistant.....do.....  | 1,500.00    | 1                   | 1                          |   |   |
| Scientific assistant.....do.....  | 1,400.00    | ..                  | 1 (pt. time)               |   |   |
| Scientific assistant.....do.....  | 1,200.00    | ..                  | 1 (pt. time)               |   |   |
| Expert.....do.....  | 1,800.00    | ..                  | 1 (pt. time)               |   |   |
| Special field agents.....do.....  | 1,500.00    | 1                   | ..                         |   |   |
| Special field agent.....do.....   | 1,400.00    | 1                   | ..                         |   |   |
| Special field agent.....do.....   | 1,200.00    | 1                   | ..                         |   |   |
| Cotton entomologist.....do.....   | 1,200.00    | ..                  | 1 (pt. time)               |   |   |
| Scientific indexer.....do.....  | 1,000.00    | ..                  | 1 (temp.)                  |   |   |
| Administrative assistant.....do.....  | 2,700.00    | ..                  | 1 (pt. time)               |   |   |
| Editor.....do.....  | 2,250.00    | ..                  | 1 (temp.)                  |   |   |
| Clerk.....do.....   | 1,800.00    | ..                  | 1 (temp.)                  |   |   |
| Clerk.....do.....   | 1,500.00    | ..                  | 1 (temp.)                  |   |   |
| Clerks.....do.....  | 1,400.00    | ..                  | 3 (temp.)                  |   |   |
| Clerks.....do.....  | 1,200.00    | ..                  | 2 (temp.)                  |   |   |
| Clerk.....do.....   | 1,100.00    | ..                  | 1 (temp.)                  |   |   |
| Collaborators.....do.....   | \$12 to \$1 | 5                   | 7                          |   |   |
| Entomological preparators, field assistants, watchmen, elevator conductor, and messenger boys, \$900 to \$480.....do.....   |             | 1 (temp.)           | 11 (temp.)                 |   |   |
| Wages:  |             |                     |                            |   |   |
| Fireman.....per diem.....   | 3.36        | ..                  | 1 (temp.)                  |   |   |
|   |             | 31                  | 55                         |   |   |
| Salaries.....   |             | \$49,128.00         | \$41,281.67                |   |   |
| Wages.....  |             |                     | 938.16                     |   |   |
| Other objects of expenditure:   |             |                     |                            |   |   |
| Traveling expenses.....   |             | 3,600.00            | 4,494.99                   |   |   |
| Equipment and material.....   |             | 602.00              | 805.71                     |   |   |
| Miscellaneous items.....  |             | 9,000.00            | 4,410.28                   |   |   |
| Total.....  |             | 62,330.00           | 51,930.81                  |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|---|---|
| <i>General Expenses, Bureau of Entomology—Continued.</i>  |            |   |   |
| (43) For general administrative expenses connected with above lines of investigation, and for miscellaneous expenses incident thereto <b>[\$5,480]</b> ( <i>acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; July 24, 1919, vol. 41, pp. 255, 256, sec. 1</i> ) ---  |            | \$3,880.00  |   |
| Appropriation for 1917.....   | \$3,000    | Estimate for 1917.....  | \$3,090   |
| Appropriation for 1918.....   | 3,000      | Estimate for 1918.....  | 3,000   |
| Appropriation for 1919.....   | 5,480      | Estimate for 1919.....  | 9,000   |
| Appropriation for 1920.....   | 5,480      | Estimate for 1920.....  | 5,480   |
|   |            | Estimate for 1921.....  | 3,880   |
| NOTE.—There is a decrease in this item of \$1,600, due to the transfer of 1 clerk of class 3, to the statutory roll of the Division of Publications.  |            |   |   |
| Employees.  | Rate.      | Estimated, 1921.  | Expended, 1919.   |
| Salaries:   |            | Number.   | Number.   |
| Entomologist in extension work.....per annum.....   | \$2,500.00 | .....   | 1 (pt. time).   |
| Entomological assistant.....do.....   | 2,250.00   | .....   | 1 (pt. time).   |
| Clerks.....do.....  | 1,600.00   | .....   | 1 (temp.).  |
| Clerks.....do.....  | 1,200.00   | .....   | 3 (temp.).  |
| Wages:  |            |   |   |
| Laborer.....do.....   | 840.00     | .....   | 1 (temp.).  |
|   |            |   | 7   |
| Salaries.....   |            |   | \$5,375.42  |
| Wages.....  |            |   | 576.33  |
| Other objects of expenditure:   |            |   |   |
| Stationery.....   |            | \$700.00  | 509.06  |
| Traveling expenses.....   |            | 1,000.00  | 660.03  |
| Equipment and material.....   |            | 1,080.00  | 721.17  |
| Telephone and telegraph service.....  |            | 300.00  | 145.14  |
| Miscellaneous items.....  |            | 800.00  | 521.87  |
| Total.....  |            | 3,880.00  | 8,509.02  |
| In all, for general expenses .....  |            | \$778,420.00  | \$943,300 00  |
| Appropriation for 1911 .....  | \$202,990  | Estimate for 1912 .....   | \$238,110   |
| Appropriation for 1912 .....  | 256,950    | Estimate for 1913 .....   | 258,450   |
| Appropriation for 1913 .....  | 323,750    | Estimate for 1914 .....   | 371,000   |
| Appropriation for 1914 .....  | 381,250    | Estimate for 1915 .....   | 447,970   |
| Appropriation for 1915 .....  | 450,370    | Estimate for 1916 .....   | 460,370   |
| Appropriation for 1916 .....  | 450,370    | Estimate for 1917 .....   | 446,150   |
| Appropriation for 1917 .....  | 464,650    | Estimate for 1918 .....   | 532,150   |
| Appropriation for 1918 .....  | 524,250    | Estimate for 1919 .....   | 557,300   |
| Appropriation for 1919 .....  | 567,300    | Estimate for 1920 .....   | 603,300   |
| Appropriation for 1920 .....  | 943,390    | Estimate for 1921 .....   | 778,420   |
| Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).  |            |   |   |
| GENERAL EXPENSES—BUREAU OF ENTOMOLOGY.  |            |   |   |
| 1 clerk, \$1,800 per annum.   |            |   |   |
| 2 clerks, at \$1,600 each per annum.  |            |   |   |
| 1 clerk, \$1,500 per annum.   |            |   |   |
| 5 clerks, at \$1,400 each per annum.  |            |   |   |
| 20 clerks, at \$1,200 each per annum.   |            |   |   |
| 2 clerks, at \$1,100 each per annum.  |            |   |   |
| 1 clerk, \$1,000 per annum.   |            |   |   |
| 2 clerks, at \$900 each per annum.  |            |   |   |
| 2 clerks, at \$840 each per annum.  |            |   |   |
| 1 clerk, \$70 per month.  |            |   |   |
| <i>Preventing Spread of Moths, Bureau of Entomology—</i>  |            |   |   |
| (44) To enable the Secretary of Agriculture to meet the emergency caused by the continued spread of the gypsy and brown tail moths by conducting such experiments as may be necessary to determine the best methods of controlling these insects; by introducing and establishing the parasites and natural enemies of these insects and colonizing them within the infested territory; by establishing and maintaining a quarantine against further spread in such manner as is provided by the general nursery-stock law, approved August |            |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
|---|------------|---|---|--------------------|------------------|--|----------------|----------------|---|------------|---|----|-------------------------------------|----------|----|---|------------------------|----------|---|---|--------------------|----------|----|--------------|---------------------|----------|--------------|----|--------------------------------------|----------|---|----|--------------------------------------|----------|----|---|---------------------------------------|----------|---|---|--------------------------------------|----------|---|----|---------------------------------------|----------|---|---|--------------------------------------|----------|---|---|-----------------------------------|----------|---|----|-----------------------------------|----------|---|---|------------------------------------|----------|---|----|------------------------------------|----------|----|-------------|-----------------------------------|----------|---|---|-----------------------------------|----------|---|---|-----------------------------------|----------|---|---|-----------------------------------|----------|---|----|-----------------------------------|----------|----|---|------------------------------------|----------|---|---|-----------------------------------|----------|---|----|------------------------------------|----------|---|---|------------------------------------|----------|---|---|------------------------------------|----------|---|-------------|---|----------|---|---|-------------------------|----------|---|---|-------------------------|----------|-----------|-----------|----------------------------------|----------|---|---|--|----------|---|---|----------------------|----------|---|----|----------------------|----------|---|----|----------------------|----------|----|---|-----------------------|----------|---|----|-----------------------|----------|---|----|---------------------|----------|----|-----------|--------------------|----------|----|-----------|---|--|-------------|-------------|---------------|--|--|--|---|--|-------------|-------------|--|--|-----|-----|---------------|--|-------------|-------------|------------|--|-----------|-----------|--------------------------------------|--|--|--|-------------------------|--|-----------|-----------|-----------------------------|--|----------|----------|--------------------------|--|-----------|-----------|-------------------|--|-------------------|-------------------|---|--|------------------------|------------------------|--|--|--|
| <i>Preventing Spread of Moths, Bureau of Entomology—Continued.</i>  |            |   |   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <p>20, 1912, as amended, entitled "An Act to regulate the importation of nursery stock and other plants and plant products, to enable the Secretary of Agriculture to establish and maintain quarantine districts for plant diseases and insect pests, to permit and regulate the movements of fruits, plants, and vegetables therefrom, and for other purposes," in cooperation with the authorities of the different States concerned and with the several State experiment stations, including rent outside of the District of Columbia, the employment of labor in the city of Washington and elsewhere, and all other necessary expenses <b>[\$304,050]</b> \$302,650 (acts Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; July 24, 1919, vol. 41, pp. 256, 257, sec. 1) -----</p>  |            | \$302, 650. 00  | \$304, 050. 00  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <p>Appropriation for 1911..... \$300,000   Estimate for 1912..... \$284,840<br/> Appropriation for 1912..... 284,840   Estimate for 1913..... 284,840<br/> Appropriation for 1913..... 284,840   Estimate for 1914..... 300,000<br/> Appropriation for 1914..... 300,000   Estimate for 1915..... 297,540<br/> Appropriation for 1915..... 310,000   Estimate for 1916..... 310,000<br/> Appropriation for 1916..... 310,000   Estimate for 1917..... 305,900<br/> Appropriation for 1917..... 305,050   Estimate for 1918..... 305,050<br/> Appropriation for 1918..... 305,050   Estimate for 1919..... 304,050<br/> Appropriation for 1919..... 304,050   Estimate for 1920..... 304,050<br/> Appropriation for 1920..... 304,050   Estimate for 1921..... 302,650</p>   |            |   |   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <p>NOTE.—There is a decrease in this item of \$1,400, due to the transfer to the statutory roll of 1 clerk of class 2.</p>  |            |   |   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <table> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr> <tr> <td><b>Salaries:</b></td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr> <tr> <td>Entomologist in charge..... per annum..</td><td>\$4,000.00</td><td>1</td><td>..</td></tr> <tr> <td>Entomologist in charge..... do.....</td><td>3,750.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistant..... do.....</td><td>3,250.00</td><td>1</td><td>1</td></tr> <tr> <td>Agent..... do.....</td><td>3,250.00</td><td>..</td><td>1 (pt. time)</td></tr> <tr> <td>Expert..... do.....</td><td>1,800.00</td><td>1 (pt. time)</td><td>..</td></tr> <tr> <td>Entomological assistant..... do.....</td><td>2,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Entomological assistant..... do.....</td><td>2,250.00</td><td>..</td><td>1</td></tr> <tr> <td>Entomological assistants..... do.....</td><td>2,000.00</td><td>2</td><td>2</td></tr> <tr> <td>Entomological assistant..... do.....</td><td>1,980.00</td><td>1</td><td>..</td></tr> <tr> <td>Entomological assistants..... do.....</td><td>1,800.00</td><td>1</td><td>2</td></tr> <tr> <td>Entomological assistant..... do.....</td><td>1,560.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientific assistant..... do.....</td><td>2,250.00</td><td>1</td><td>..</td></tr> <tr> <td>Scientific assistant..... do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientific assistants..... do.....</td><td>1,560.00</td><td>3</td><td>..</td></tr> <tr> <td>Scientific assistants..... do.....</td><td>1,400.00</td><td>..</td><td>5 (2 temp.)</td></tr> <tr> <td>Scientific assistant..... do.....</td><td>1,380.00</td><td>1</td><td>1</td></tr> <tr> <td>Gypsy moth assistant..... do.....</td><td>2,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Gypsy moth assistant..... do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr> <tr> <td>Gypsy moth assistant..... do.....</td><td>1,740.00</td><td>1</td><td>..</td></tr> <tr> <td>Gypsy moth assistant..... do.....</td><td>1,600.00</td><td>..</td><td>1</td></tr> <tr> <td>Gypsy moth assistants..... do.....</td><td>1,560.00</td><td>3</td><td>1</td></tr> <tr> <td>Gypsy moth assistant..... do.....</td><td>1,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Gypsy moth assistants..... do.....</td><td>1,400.00</td><td>4</td><td>6</td></tr> <tr> <td>Gypsy moth assistants..... do.....</td><td>1,380.00</td><td>6</td><td>3</td></tr> <tr> <td>Gypsy moth assistants..... do.....</td><td>1,200.00</td><td>2</td><td>8 (1 temp.)</td></tr> <tr> <td>Assistant in forest management..... do.....</td><td>1,560.00</td><td>1</td><td>1</td></tr> <tr> <td>Specialist..... do.....</td><td>1,560.00</td><td>1</td><td>1</td></tr> <tr> <td>Specialist..... do.....</td><td>1,500.00</td><td>1 (temp.)</td><td>1 (temp.)</td></tr> <tr> <td>Special field agent..... do.....</td><td>1,320.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant entomological inspector..... do.....</td><td>1,200.00</td><td>1</td><td>1</td></tr> <tr> <td>Foremen..... do.....</td><td>1,380.00</td><td>3</td><td>..</td></tr> <tr> <td>Foreman..... do.....</td><td>1,260.00</td><td>1</td><td>..</td></tr> <tr> <td>Foremen..... do.....</td><td>1,200.00</td><td>..</td><td>3</td></tr> <tr> <td>Mechanic..... do.....</td><td>1,200.00</td><td>1</td><td>..</td></tr> <tr> <td>Mechanic..... do.....</td><td>1,080.00</td><td>1</td><td>..</td></tr> <tr> <td>Clerks..... do.....</td><td>1,200.00</td><td>..</td><td>4 (temp.)</td></tr> <tr> <td>Clerk..... do.....</td><td>1,000.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Entomological preparator and collaborators, \$720 to \$1..... do.....</td><td></td><td>6 (1 temp.)</td><td>7 (2 temp.)</td></tr> <tr> <td><b>Wages:</b></td><td></td><td></td><td></td></tr> <tr> <td>Laborers, scouts, and foremen, \$4.40 to \$2.88..... per diem..</td><td></td><td>500 (temp.)</td><td>500 (temp.)</td></tr> <tr> <td></td><td></td><td>551</td><td>557</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$72,753.00</td><td>\$61,611.45</td></tr> <tr> <td>Wages.....</td><td></td><td>97,000.00</td><td>94,446.94</td></tr> <tr> <td><b>Other objects of expenditure:</b></td><td></td><td></td><td></td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>46,000.00</td><td>46,854.69</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>6,000.00</td><td>6,141.43</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>80,897.00</td><td>85,711.21</td></tr> <tr> <td><b>Total.....</b></td><td></td><td><b>302,650.00</b></td><td><b>294,765.72</b></td></tr> <tr> <td colspan="2"><b>Total for Bureau of Entomology -----</b></td><td><b>1, 219, 260. 00</b></td><td><b>1, 371, 360. 00</b></td></tr> </table> | Employees. | Rate.   | Estimated,<br>1921.   | Expended,<br>1919. | <b>Salaries:</b> |  | <i>Number.</i> | <i>Number.</i> | Entomologist in charge..... per annum.. | \$4,000.00 | 1 | .. | Entomologist in charge..... do..... | 3,750.00 | .. | 1 | Assistant..... do..... | 3,250.00 | 1 | 1 | Agent..... do..... | 3,250.00 | .. | 1 (pt. time) | Expert..... do..... | 1,800.00 | 1 (pt. time) | .. | Entomological assistant..... do..... | 2,500.00 | 1 | .. | Entomological assistant..... do..... | 2,250.00 | .. | 1 | Entomological assistants..... do..... | 2,000.00 | 2 | 2 | Entomological assistant..... do..... | 1,980.00 | 1 | .. | Entomological assistants..... do..... | 1,800.00 | 1 | 2 | Entomological assistant..... do..... | 1,560.00 | 1 | 1 | Scientific assistant..... do..... | 2,250.00 | 1 | .. | Scientific assistant..... do..... | 1,800.00 | 1 | 1 | Scientific assistants..... do..... | 1,560.00 | 3 | .. | Scientific assistants..... do..... | 1,400.00 | .. | 5 (2 temp.) | Scientific assistant..... do..... | 1,380.00 | 1 | 1 | Gypsy moth assistant..... do..... | 2,500.00 | 1 | 1 | Gypsy moth assistant..... do..... | 1,800.00 | 1 | 1 | Gypsy moth assistant..... do..... | 1,740.00 | 1 | .. | Gypsy moth assistant..... do..... | 1,600.00 | .. | 1 | Gypsy moth assistants..... do..... | 1,560.00 | 3 | 1 | Gypsy moth assistant..... do..... | 1,500.00 | 1 | .. | Gypsy moth assistants..... do..... | 1,400.00 | 4 | 6 | Gypsy moth assistants..... do..... | 1,380.00 | 6 | 3 | Gypsy moth assistants..... do..... | 1,200.00 | 2 | 8 (1 temp.) | Assistant in forest management..... do..... | 1,560.00 | 1 | 1 | Specialist..... do..... | 1,560.00 | 1 | 1 | Specialist..... do..... | 1,500.00 | 1 (temp.) | 1 (temp.) | Special field agent..... do..... | 1,320.00 | 1 | 1 | Assistant entomological inspector..... do..... | 1,200.00 | 1 | 1 | Foremen..... do..... | 1,380.00 | 3 | .. | Foreman..... do..... | 1,260.00 | 1 | .. | Foremen..... do..... | 1,200.00 | .. | 3 | Mechanic..... do..... | 1,200.00 | 1 | .. | Mechanic..... do..... | 1,080.00 | 1 | .. | Clerks..... do..... | 1,200.00 | .. | 4 (temp.) | Clerk..... do..... | 1,000.00 | .. | 1 (temp.) | Entomological preparator and collaborators, \$720 to \$1..... do..... |  | 6 (1 temp.) | 7 (2 temp.) | <b>Wages:</b> |  |  |  | Laborers, scouts, and foremen, \$4.40 to \$2.88..... per diem.. |  | 500 (temp.) | 500 (temp.) |  |  | 551 | 557 | Salaries..... |  | \$72,753.00 | \$61,611.45 | Wages..... |  | 97,000.00 | 94,446.94 | <b>Other objects of expenditure:</b> |  |  |  | Traveling expenses..... |  | 46,000.00 | 46,854.69 | Equipment and material..... |  | 6,000.00 | 6,141.43 | Miscellaneous items..... |  | 80,897.00 | 85,711.21 | <b>Total.....</b> |  | <b>302,650.00</b> | <b>294,765.72</b> | <b>Total for Bureau of Entomology -----</b> |  | <b>1, 219, 260. 00</b> | <b>1, 371, 360. 00</b> |  |  |  |
| Employees.  | Rate.      | Estimated,<br>1921.   | Expended,<br>1919.  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <b>Salaries:</b>  |            | <i>Number.</i>  | <i>Number.</i>  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomologist in charge..... per annum..   | \$4,000.00 | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomologist in charge..... do.....   | 3,750.00   | ..  | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Assistant..... do.....  | 3,250.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Agent..... do.....  | 3,250.00   | ..  | 1 (pt. time)  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Expert..... do.....   | 1,800.00   | 1 (pt. time)  | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistant..... do.....  | 2,500.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistant..... do.....  | 2,250.00   | ..  | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistants..... do.....   | 2,000.00   | 2   | 2   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistant..... do.....  | 1,980.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistants..... do.....   | 1,800.00   | 1   | 2   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological assistant..... do.....  | 1,560.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Scientific assistant..... do.....   | 2,250.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Scientific assistant..... do.....   | 1,800.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Scientific assistants..... do.....  | 1,560.00   | 3   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Scientific assistants..... do.....  | 1,400.00   | ..  | 5 (2 temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Scientific assistant..... do.....   | 1,380.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistant..... do.....   | 2,500.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistant..... do.....   | 1,800.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistant..... do.....   | 1,740.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistant..... do.....   | 1,600.00   | ..  | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistants..... do.....  | 1,560.00   | 3   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistant..... do.....   | 1,500.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistants..... do.....  | 1,400.00   | 4   | 6   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistants..... do.....  | 1,380.00   | 6   | 3   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Gypsy moth assistants..... do.....  | 1,200.00   | 2   | 8 (1 temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Assistant in forest management..... do.....   | 1,560.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Specialist..... do.....   | 1,560.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Specialist..... do.....   | 1,500.00   | 1 (temp.)   | 1 (temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Special field agent..... do.....  | 1,320.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Assistant entomological inspector..... do.....  | 1,200.00   | 1   | 1   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Foremen..... do.....  | 1,380.00   | 3   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Foreman..... do.....  | 1,260.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Foremen..... do.....  | 1,200.00   | ..  | 3   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Mechanic..... do.....   | 1,200.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Mechanic..... do.....   | 1,080.00   | 1   | ..  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Clerks..... do.....   | 1,200.00   | ..  | 4 (temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Clerk..... do.....  | 1,000.00   | ..  | 1 (temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Entomological preparator and collaborators, \$720 to \$1..... do.....   |            | 6 (1 temp.)   | 7 (2 temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <b>Wages:</b>   |            |   |   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Laborers, scouts, and foremen, \$4.40 to \$2.88..... per diem..   |            | 500 (temp.)   | 500 (temp.)   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
|   |            | 551   | 557   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Salaries.....   |            | \$72,753.00   | \$61,611.45   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Wages.....  |            | 97,000.00   | 94,446.94   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <b>Other objects of expenditure:</b>  |            |   |   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Traveling expenses.....   |            | 46,000.00   | 46,854.69   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Equipment and material.....   |            | 6,000.00  | 6,141.43  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| Miscellaneous items.....  |            | 80,897.00   | 85,711.21   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <b>Total.....</b>   |            | <b>302,650.00</b>   | <b>294,765.72</b>   |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |
| <b>Total for Bureau of Entomology -----</b>   |            | <b>1, 219, 260. 00</b>  | <b>1, 371, 360. 00</b>  |                    |                  |  |                |                |   |            |   |    |                                     |          |    |   |                        |          |   |   |                    |          |    |              |                     |          |              |    |                                      |          |   |    |                                      |          |    |   |                                       |          |   |   |                                      |          |   |    |                                       |          |   |   |                                      |          |   |   |                                   |          |   |    |                                   |          |   |   |                                    |          |   |    |                                    |          |    |             |                                   |          |   |   |                                   |          |   |   |                                   |          |   |   |                                   |          |   |    |                                   |          |    |   |                                    |          |   |   |                                   |          |   |    |                                    |          |   |   |                                    |          |   |   |                                    |          |   |             |   |          |   |   |                         |          |   |   |                         |          |           |           |                                  |          |   |   |  |          |   |   |                      |          |   |    |                      |          |   |    |                      |          |    |   |                       |          |   |    |                       |          |   |    |                     |          |    |           |                    |          |    |           |   |  |             |             |               |  |  |  |   |  |             |             |  |  |     |     |               |  |             |             |            |  |           |           |                                      |  |  |  |                         |  |           |           |                             |  |          |          |                          |  |           |           |                   |  |                   |                   |   |  |                        |                        |  |  |  |

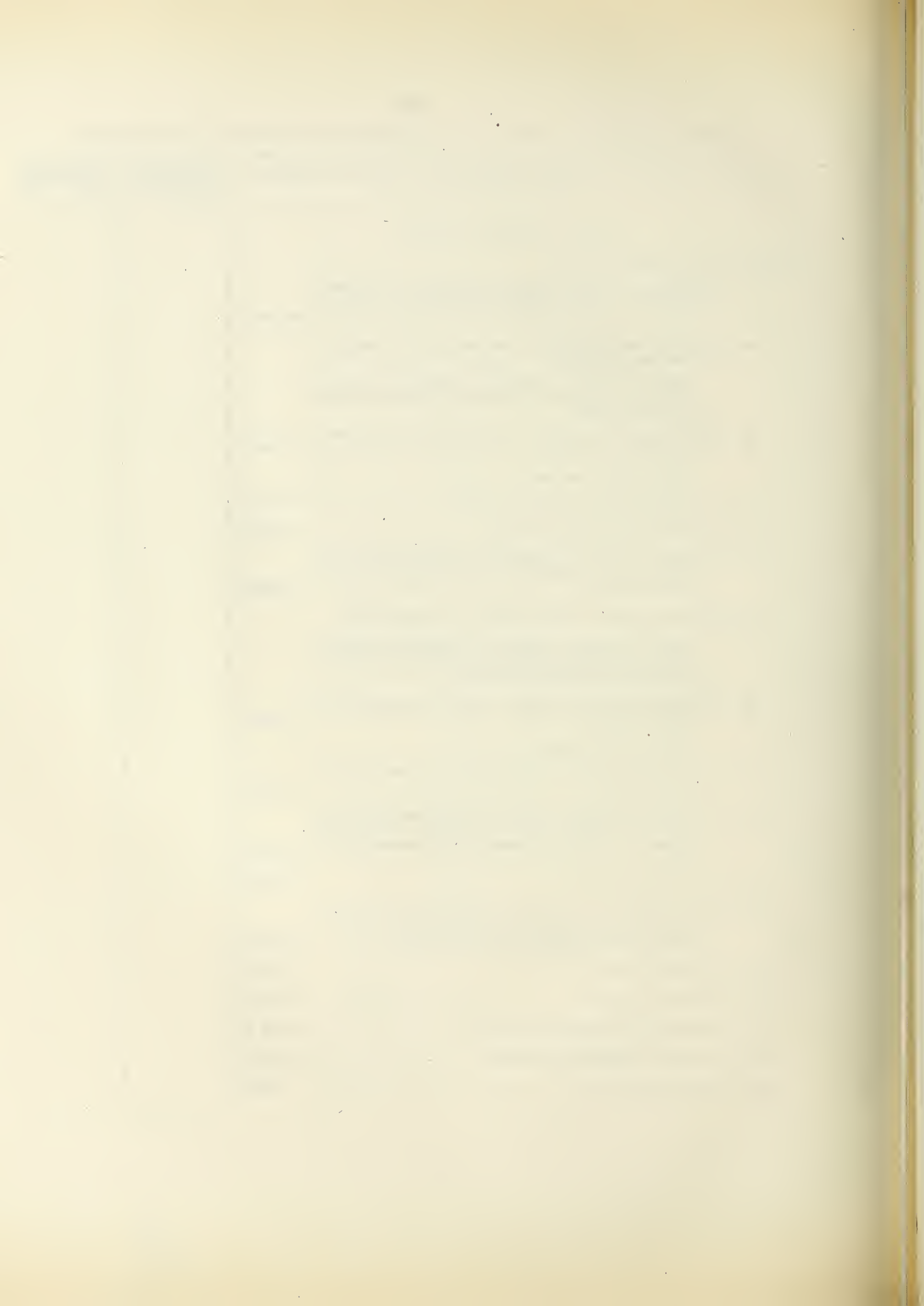


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## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| BUREAU OF BIOLOGICAL SURVEY.   |   |   |
| <i>Salaries, Bureau of Biological Survey—</i>  |   |   |
| (1) One biologist, who shall be chief of bureau ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 3, 1905</i> , vol. 33, p. 877, sec. 1; <i>July 24, 1919</i> , vol. 41, p. 257, sec. 1) .....   | \$4,000.00  |   |
| (2) <b>One chief clerk and executive assistant, \$1,800, changed to 1 chief clerk, \$1,800</b>   |   |   |
| NOTE.—This change in designation is recommended in order to shorten the title and make it conform with the designation of similar officers in other bureaus.   |   |   |
| (3) One chief clerk (in lieu of 1 chief clerk and executive assistant, \$1,800) ( <i>same acts</i> ) .....   | 1,800.00  |   |
| NOTE.—See note under item 2.   |   |   |
| (4) One administrative assistant ( <i>same acts</i> ) .....  | 2,250.00  |   |
| (5) One executive assistant ( <i>same acts</i> ) .....   | 1,800.00  |   |
| (6) Two clerks, class 4 (by transfer from lump funds for food habits of birds and mammals, and protection of migratory birds) ( <i>same acts</i> ) .....   | 3,600.00  |   |
| (7) <b>One financial clerk, \$1,600, changed to 1 clerk, class 3</b>   |   |   |
| NOTE.—This change in designation is recommended in order to indicate more accurately the character of the duties of the position, which are of a general clerical nature. It is proposed to combine the place with other clerks of class 3 under item 8. |   |   |
| (8) Four clerks, class 3 (increase of 1 in lieu of 1 financial clerk, \$1,600) ( <i>same acts</i> ) .....  | 6,400.00  |   |
| NOTE.—See note under item 7.   |   |   |
| (9) One clerk (by transfer from lump fund for game preservation) ( <i>same acts</i> ) .....  | 1,500.00  |   |
| (10) Nine clerks, class 2 (increase of 3 by transfer from lump funds, 2 from food habits of birds and mammals, and 1 from suppression of rabies in predatory wild animals) ( <i>same acts</i> ) .....  | 12,600.00   |   |
| (11) One clerk ( <i>same acts</i> ) .....  | 1,260.00  |   |
| (12) Thirteen clerks, class 1 (increase of 3 by transfer from lump funds, 2 from food habits of birds and mammals, and 1 from protection of migratory birds) ( <i>same acts</i> ) .....  | 15,600.00   |   |
| (13) One clerk ( <i>same acts</i> ) .....  | 1,100.00  |   |
| (14) One clerk ( <i>same acts</i> ) .....  | 1,080.00  |   |
| (15) Three clerks, at \$1,000 each ( <i>same acts</i> ) .....  | 3,000.00  |   |
| (16) Four clerks, at \$900 each ( <i>same acts</i> ) .....   | 3,600.00  |   |
| (17) One clerk ( <i>same acts</i> ) .....  | 840.00  |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|--|---|---|
| <i>Salaries, Bureau of Biological Survey—Continued.</i>   |  |   |   |
| (18)  | One clerk ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 3, 1905, vol. 33, p. 877, sec. 1; July 24, 1919, vol. 41, p. 257, sec. 1) --- | \$720. 00   |   |
| (19)  | One preparator ( <i>same acts</i> ) -----  | 1, 200. 00  |   |
| (20)  | One preparator ( <i>same acts</i> ) -----  | 900. 00   |   |
| (21)  | One messenger ( <i>same acts</i> ) -----   | 720. 00   |   |
| (22)  | One photographer ( <i>same acts</i> ) -----  | 1, 300. 00  |   |
| (23)  | One game warden ( <i>same acts</i> ) -----   | 1, 200. 00  |   |
| (24)  | Two messenger boys, at \$480 each ( <i>same acts</i> ) -----   | 960. 00   |   |
| (25)  | One messenger boy ( <i>same acts</i> ) -----   | 360. 00   |   |
| (26)  | One laborer ( <i>same acts</i> ) -----   | 600. 00   |   |
| (27)  | Two charwomen, at \$240 each ( <i>same acts</i> ) -----  | 480. 00   |   |
|   |  | \$68, 870. 00   | \$55, 970. 00   |

|                              |           |                         |           |
|------------------------------|-----------|-------------------------|-----------|
| Appropriations for 1911..... | \$15, 400 | Estimates for 1912..... | \$25, 100 |
| Appropriations for 1912..... | 24, 000   | Estimates for 1913..... | 25, 100   |
| Appropriations for 1913..... | 25, 100   | Estimates for 1914..... | 30, 040   |
| Appropriations for 1914..... | 29, 990   | Estimates for 1915..... | 31, 590   |
| Appropriations for 1915..... | 32, 790   | Estimates for 1916..... | 34, 470   |
| Appropriations for 1916..... | 34, 470   | Estimates for 1917..... | 44, 030   |
| Appropriations for 1917..... | 44, 030   | Estimates for 1918..... | 47, 770   |
| Appropriations for 1918..... | 46, 370   | Estimates for 1919..... | 48, 260   |
| Appropriations for 1919..... | 48, 170   | Estimates for 1920..... | 55, 470   |
| Appropriations for 1920..... | 55, 970   | Estimates for 1921..... | 68, 870   |

NOTE.—Apparent increase, \$12,900; no actual increase, as follows:

*Transfers from lump funds of this bureau, which funds have been correspondingly reduced.*

|  |          |
|--|----------|
| 2 clerks, class 4, 1 from food habits of birds and mammals and 1 from protection of migratory birds..... | \$3. 600 |
| 1 clerk, from game preservation.....   | 1, 500   |
| 3 clerks, class 2, 2 from food habits of birds and mammals and 1 from suppression of rabies.....         | 4, 200   |
| 3 clerks, class 1, 2 from food habits of birds and mammals and 1 from protection of migratory birds..... | 3, 600   |

Apparent increase..... 12, 900

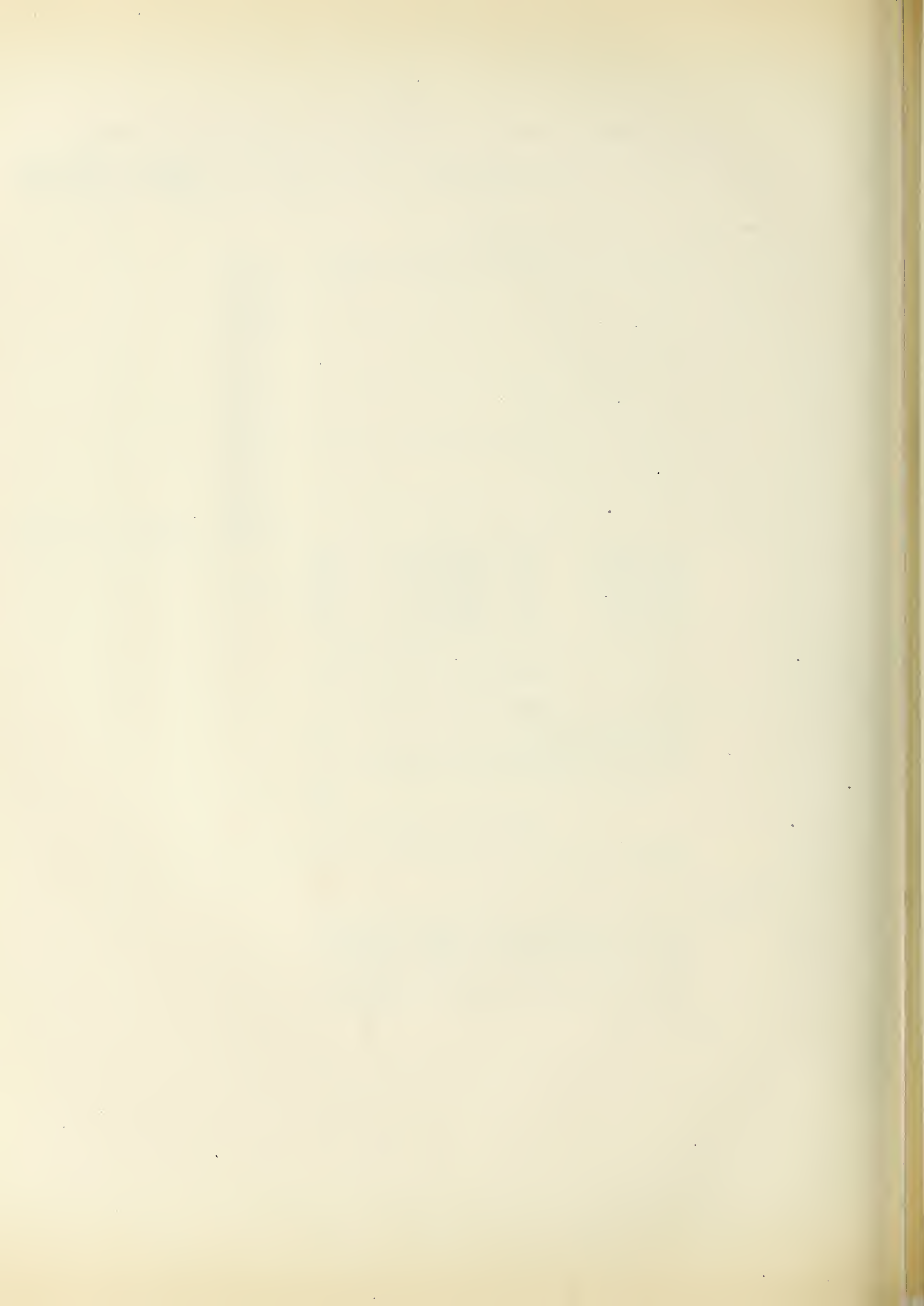
*Change of title.*

- 1 chief clerk and executive assistant, \$1,800, changed to 1 chief clerk, \$1,800.  
1 financial clerk, \$1,600, changed to 1 clerk, class 3.

*General Expenses, Bureau of Biological Survey—*

- (28) For salaries and employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling, and all other expenses necessary in conducting investigations and carrying out the work of the bureau, as follows (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1*):





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Biological Survey—Continued.

- (29) For the maintenance of the Montana National Bison Range and other reservations and for the maintenance of game introduced into suitable localities on public lands, under supervision of the Biological Survey, including construction of fencing, wardens' quarters, shelters for animals, landings, roads, trails, bridges, ditches, telephone lines, rockwork, bulkheads, and other improvements necessary for the economical administration and protection of the reservations, and for the enforcement of section 84 of the act approved March 4, 1909, entitled "An act to codify, revise, and amend the penal laws of the United States," **[\$34,600]** \$39,735, of which sum \$2,500 may be used for the purchase, capture, and transportation of game for national reservations (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1*) ----- \$39,735.00

|                             |         |                        |          |
|-----------------------------|---------|------------------------|----------|
| Appropriation for 1911..... | \$7,000 | Estimate for 1912..... | \$13,800 |
| Appropriation for 1912..... | 14,500  | Estimate for 1913..... | 17,000   |
| Appropriation for 1913..... | 17,000  | Estimate for 1914..... | 25,000   |
| Appropriation for 1914..... | 21,000  | Estimate for 1915..... | 21,000   |
| Appropriation for 1915..... | 16,000  | Estimate for 1916..... | 16,000   |
| Appropriation for 1916..... | 21,000  | Estimate for 1917..... | 21,000   |
| Appropriation for 1917..... | 25,000  | Estimate for 1918..... | 40,000   |
| Appropriation for 1918..... | 35,000  | Estimate for 1919..... | 35,000   |
| Appropriation for 1919..... | 35,000  | Estimate for 1920..... | 33,800   |
| Appropriation for 1920..... | 34,600  | Estimate for 1921..... | 39,735   |

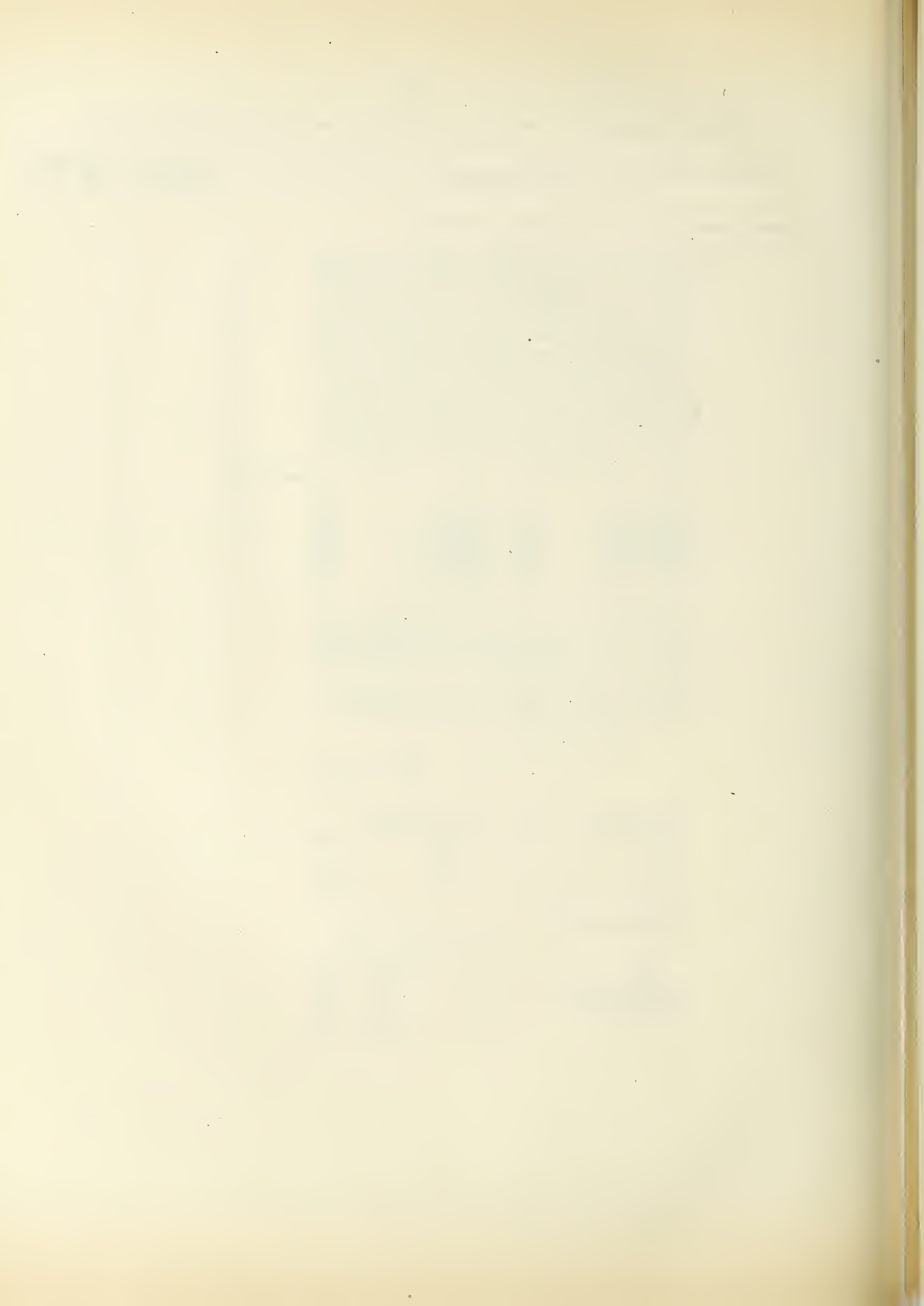
NOTE.—An increase of \$5,135 in this item is recommended for the following purposes:

(a) \$2,200 to provide a warden service for bird reservations in Alaska, adequate provision for which is impossible under present limited appropriations. This service is especially needed in order that the department may promote the development of grazing and other interests, where possible, on Alaskan reservations without interfering with the welfare of the birds to be protected.

(b) \$2,935 for salaries and expenses incident to the maintenance of bird reservations hitherto provided for by the National Association of Audubon Societies and the State game commission of Arkansas.

## Maintenance of mammal and bird reservations.

| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.         |
|---|------------|------------------|-------------------------|
|   |            | <i>Number.</i>   | <i>Number.</i>          |
| Salaries:   |            |                  |                         |
| Assistant biologist in charge..per annum..                      | \$3,000.00 | 1                | 1                       |
| Assistant biologist.....do.....                                 | 2,500.00   | 1 (pt. time)     | ..                      |
| Reservation inspector.....do.....                               | 1,800.00   | 1 (pt. time)     | ..                      |
| Reservation inspectors.....do.....                              | 1,500.00   | 1 (pt. time)     | 2 (1 temp.; 1 pt. time) |
| Warden.....do.....  | 1,500.00   | 1                | 1                       |
| Warden.....do.....  | 1,400.00   | 1                | ..                      |
| Wardens.....do.....   | 1,200.00   | 3                | 2 (1 temp.)             |
| Clerk.....do.....   | 1,000.00   | 1                | 2 (1 pt. time)          |
| Wardens and assistant wardens, \$960 to 1.....do.....           |            | 23 (8 temp.)     | 22 (8 temp.)            |
| Wages:  |            |                  |                         |
| Miscellaneous temporary labor, \$7 per diem to \$25.....do..... |            | 100              | 90                      |
|   |            | 133              | 120                     |
| Salaries.....   |            | \$20,500.00      | \$14,362.47             |
| Wages.....  |            | 6,000.00         | 6,824.88                |
| Other objects of expenditure:                                   |            |                  |                         |
| Traveling expenses.....   |            | 3,000.00         | 2,799.95                |
| Equipment and material.....                                     |            | 5,000.00         | 1,726.04                |
| Telephone and telegraph service.....                            |            |                  | 116.51                  |
| Miscellaneous items.....  |            | 2,735.00         | 4,554.47                |
| Total.....  |            | 37,235.00        | 30,384.32               |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Biological Survey—Continued.*

*Game for national reservations.*

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
|   |            | <i>Number.</i>      | <i>Number.</i>     |
| Salaries:   |            |                     |                    |
| Reservation inspector.....per annum..                       | \$1,800.00 | 1 (pt. time).       | ..                 |
| Wages:  |            |                     |                    |
| Miscellaneous temporary labor,<br>\$6 to \$1.....per diem.. |            | 10                  | 2                  |
|   |            | 11                  | 2                  |
| Salaries.....   |            | \$300.00            |                    |
| Wages.....  |            | 500.00              | \$41.50            |
| Other objects of expenditure:                               |            |                     |                    |
| Traveling expenses.....                                     |            | 500.00              |                    |
| Miscellaneous items.....                                    |            | 1,200.00            | 657.37             |
| Total.....  |            | 2,500.00            | 698.87             |

- (30) For the improvement *and maintenance* of the game [preserves] preserve in Sullys Hill National Park, in the State of North Dakota, including the construction of all fences, sheds, buildings, corrals, roads, shelters, and other structures which may be necessary for the protection of game or for the use of visitors, in addition to the amount heretofore appropriated, \$5,000, the same to be available until expended (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1*).....

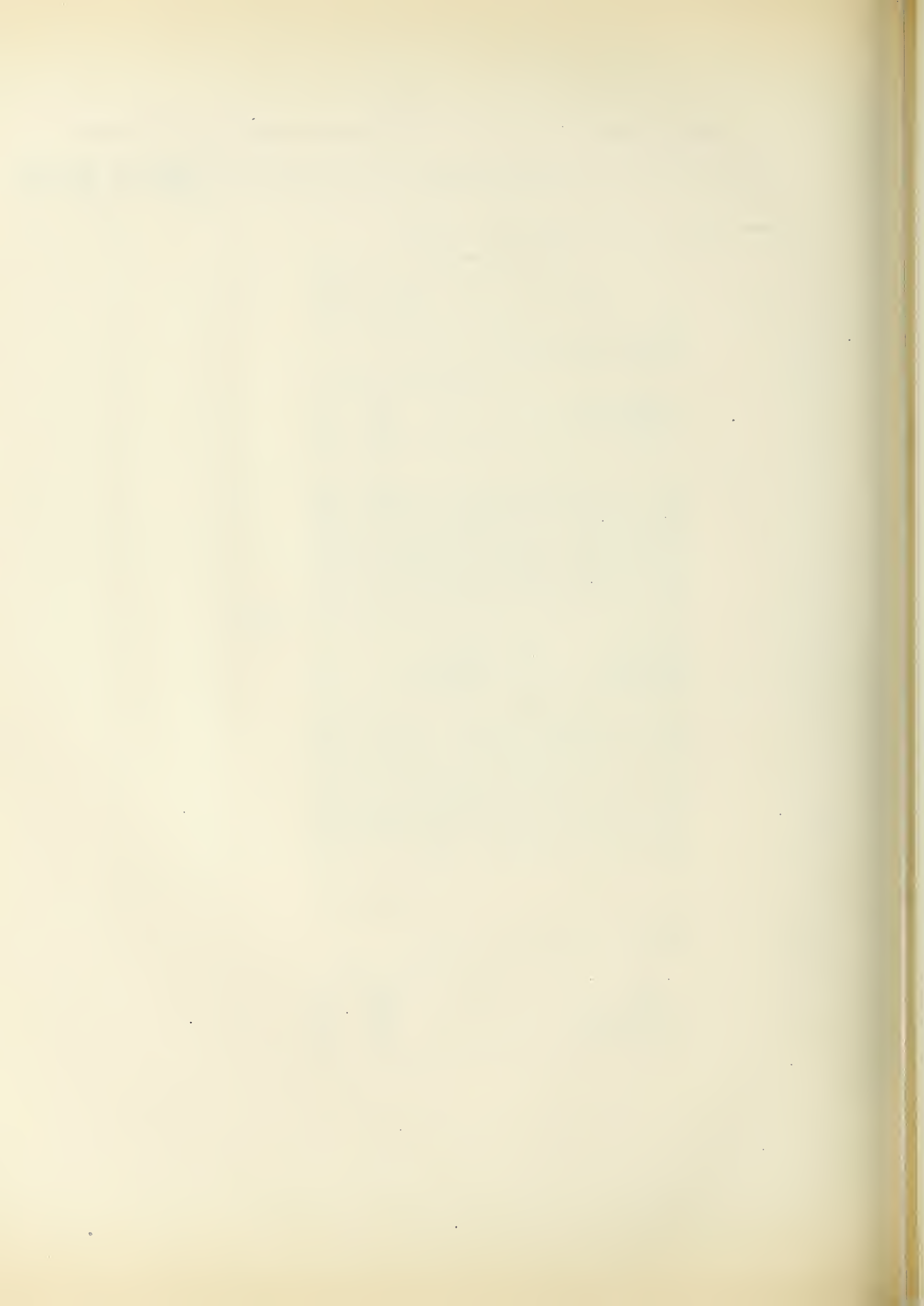
\$5,000.00

|                             |         |                        |         |
|-----------------------------|---------|------------------------|---------|
| Appropriation for 1915..... | \$5,000 | Estimate for 1916..... |         |
| Appropriation for 1916..... | 5,000   | Estimate for 1917..... |         |
| Appropriation for 1917..... | 5,000   | Estimate for 1918..... | \$5,000 |
| Appropriation for 1918..... | 5,000   | Estimate for 1919..... |         |
| Appropriation for 1919..... |         | Estimate for 1920..... |         |
| Appropriation for 1920..... | 5,000   | Estimate for 1921..... | 5,000   |

NOTE.—The language of this paragraph has been amended by inserting the words “and maintenance” after the word “improvement” and by changing the word “preserves” to “preserve.” There is only one game preserve in the Sullys Hill National Park. The present language limits the expenditure of funds under this paragraph to improvement work. At present the maintenance of the preserve is paid for from the appropriation for the general maintenance of reservations (item 29) and is an additional charge on that fund. The paragraph carried in the appropriation act for 1918 provided for the “maintenance and improvement” of the Sullys Hill game preserve. It is believed to be a more satisfactory arrangement to have both the improvement and maintenance work provided for under one item. It is proposed to use from \$1,500 to \$2,000 of this appropriation for maintenance and the balance for improvement work.

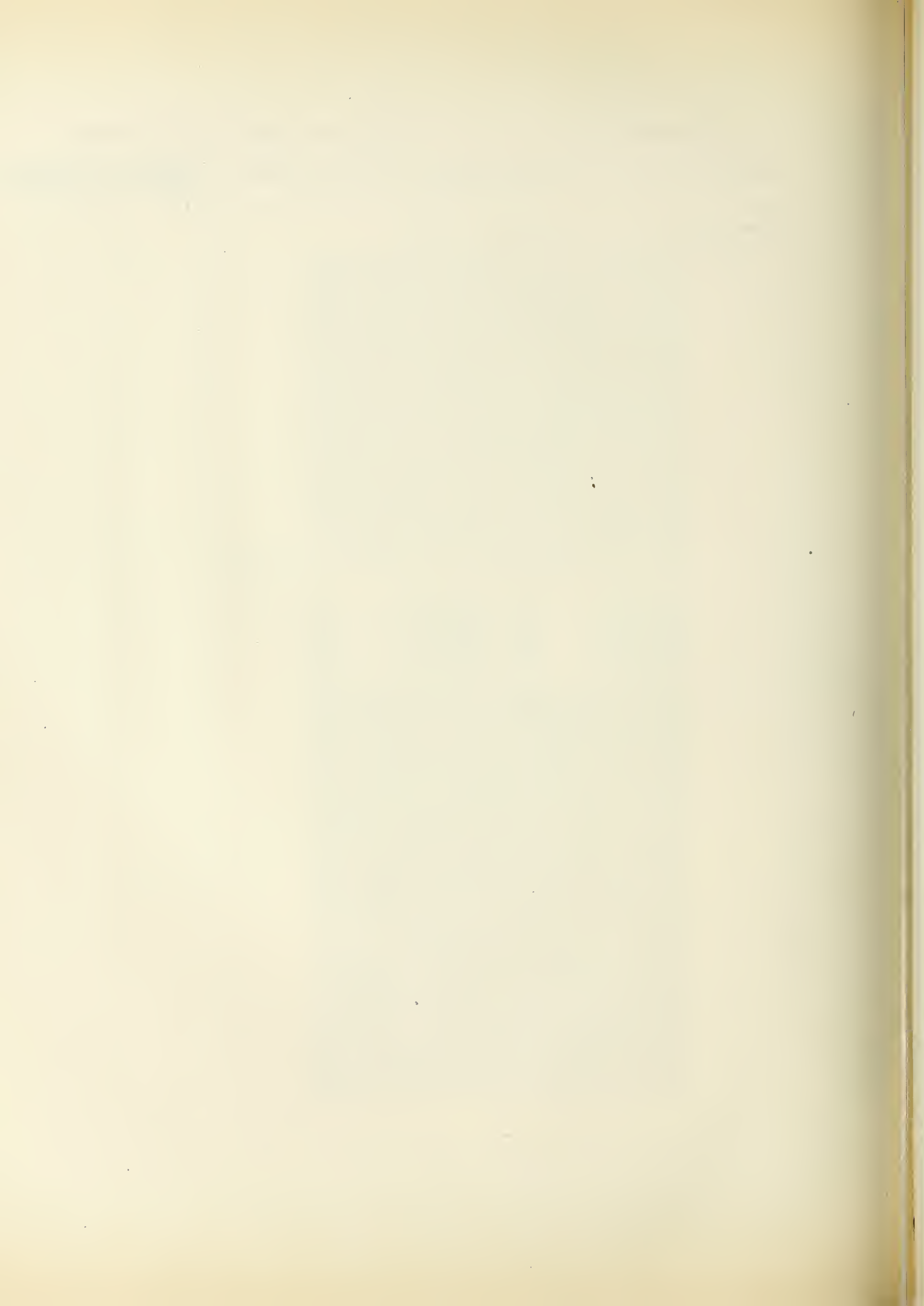
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
|   |            | <i>Number.</i>      | <i>Number.</i>     |
| Salaries:   |            |                     |                    |
| Warden.....per annum..  | \$1,500.00 | 1                   | ..                 |
| Wages:  |            |                     |                    |
| Temporary laborers, carpenters, mechanics, etc., \$7 to \$3..per diem.. |            | 15                  | 9                  |
|   |            | 16                  | 9                  |
| Salaries.....   |            | \$1,500.00          |                    |
| Wages.....  |            | 2,000.00            | \$1,197.45         |
| Other objects of expenditure:   |            |                     |                    |
| Traveling expenses.....   |            | 300.00              | 329.58             |
| Equipment and material.....   |            | 800.00              |                    |
| Miscellaneous items.....  |            | 400.00              | 1,196.12           |
| Total.....  |            | 5,000.00            | 2,723.15           |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation.  | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|--|---|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>  |  |   |
| (31) For investigating the food habits of North American birds and mammals in relation to agriculture, horticulture, and forestry, including experiments and demonstrations in destroying wolves, coyotes, prairie dogs, gophers, and other animals injurious to agriculture and animal husbandry, and for investigations and experiments in connection with rearing of fur-bearing animals, including mink and marten, <b>[\$464,440]</b> <b>\$575,000</b> : <i>Provided</i> , That of this sum \$15,000 shall be used for the destruction of ground squirrels on the national forests, and other public lands: <i>And provided also</i> , That of this sum not less than \$123,800 shall be used on the national forests and the public domain in destroying wolves, coyotes, and other animals injurious to agriculture, animal husbandry, and wild game: <i>And provided further</i> , That of this sum not more than <b>[\$125,000]</b> <b>\$123,600</b> shall be used on the public lands, national forests, and elsewhere in the Western and Northwestern States for the protection of stock and other domestic animals through the suppression of rabies by the destruction of wolves, coyotes, and other predatory wild animals ( <i>acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1</i> ) -----   | \$575,000. 00.   |   |
| Appropriation for 1911..... \$25,000<br>Appropriation for 1912..... 35,000<br>Appropriation for 1913..... 43,000<br>Appropriation for 1914..... 60,000<br>Appropriation for 1915..... 110,000<br>Appropriation for 1916..... 289,000<br>Appropriation for 1917..... 400,540<br>Appropriation for 1918..... 395,540<br>Appropriation for 1919..... 394,820<br>Appropriation for 1920..... 464,440   | Estimate for 1912..... \$35,000<br>Estimate for 1913..... 39,000<br>Estimate for 1914..... 65,000<br>Estimate for 1915..... 60,000<br>Estimate for 1916..... 110,000<br>Estimate for 1917..... 275,540<br>Estimate for 1918..... 400,540<br>Estimate for 1919..... 394,820<br>Estimate for 1920..... 389,440<br>Estimate for 1921..... 575,000 |   |
| <p>NOTE.—There is an apparent increase in this item of \$110,560, but taking into consideration transfers to the statutory roll aggregating \$8,400 the actual increase is \$118,960, which it is proposed to use in extending the campaigns for the destruction of rodent pests and predatory animals. The amount recommended will provide for the initiation of rodent eradication work in Iowa, Minnesota, and Texas; for enlarging the work in Kansas, Oklahoma, Nebraska, and South Dakota, where it has been recently begun; and for its needed expansion in other States where it has been in progress for some years and where the demands for a large increase of governmental activities are insistent. It will also provide for enlargement of predatory animal operations to meet State cooperation in Utah, Nevada, Arizona, New Mexico, Colorado, Oregon, Washington, Texas, and North Dakota, and for its development in other States where the work is in progress and is being strongly supported by stockmen's associations. During the present fiscal year the States, counties, local organizations, and individuals are contributing over \$800,000 for cooperation with the department in the rodent and predatory animal campaigns, and, in general, have requested that the Government meet the contributions of the States on an equal basis. The fact that the effectiveness of the work has aroused the enthusiasm of the farming and stock-raising communities of the West sufficiently for them to put up these large sums of money, and that the department has been unable to meet the requirements of the situation, has led to much embarrassment. In State after State it has been necessary for the department to cut down its activities in the face of an urgent demand for their increase. It is estimated that approximately \$300,000,000 worth of growing crops and forage are annually destroyed by native rodent pests, that the ravages of house rats and mice result in an annual loss in food and other property of approximately \$200,000,000, and that predatory animals kill \$20,000,000 worth of live stock. Such rodents as ground squirrels and prairie dogs have been practically destroyed over enormous areas in the West, but, unless sufficient funds are provided to continue the work on a larger scale, it will be a practical impossibility to prevent the reinfestation of this territory and the loss of a large part of the benefits already obtained through the campaigns. Large expanses of the public domain in the Western States and in the national forests are being cleared of rodents, thus increasing</p> |  |   |

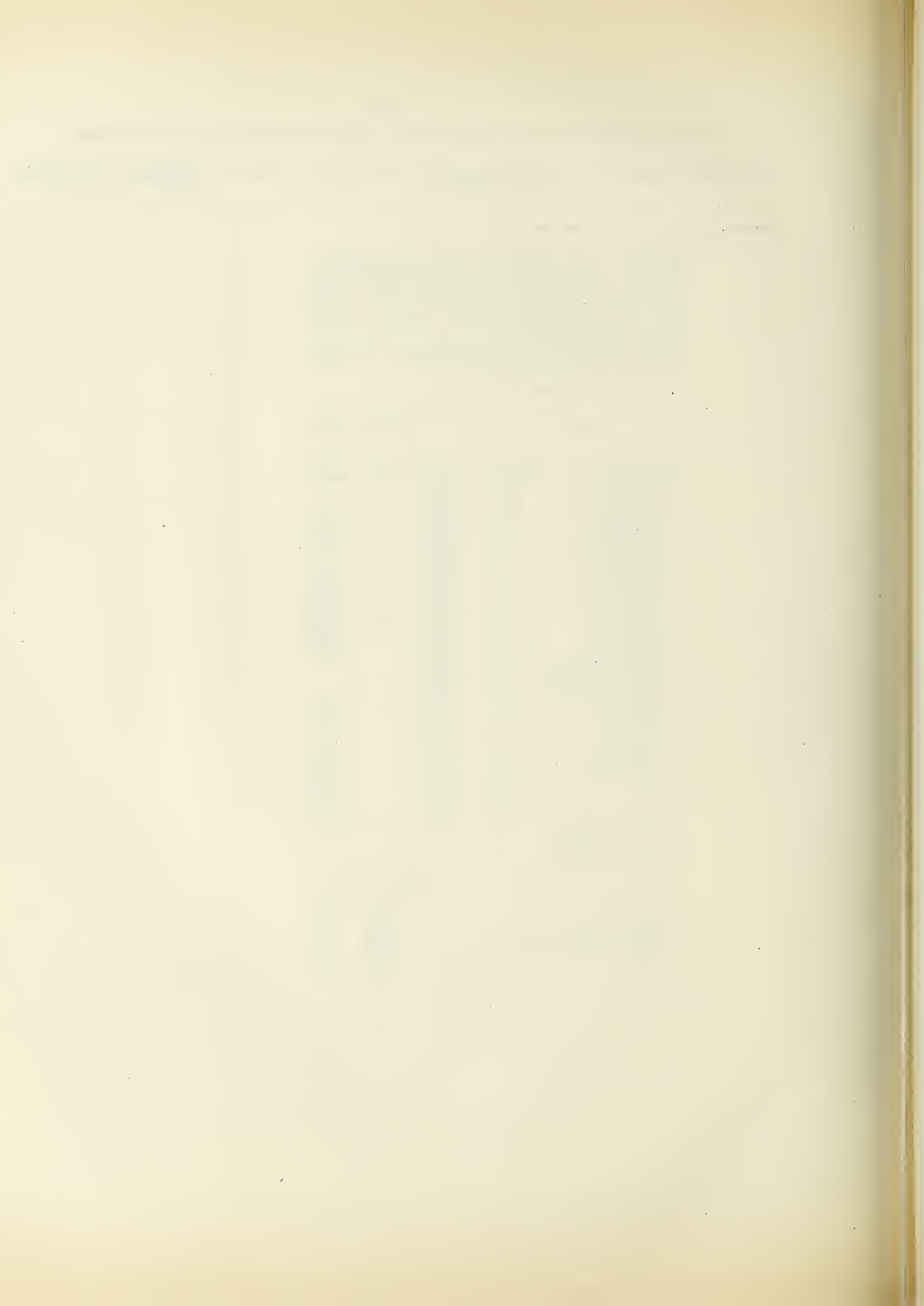




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

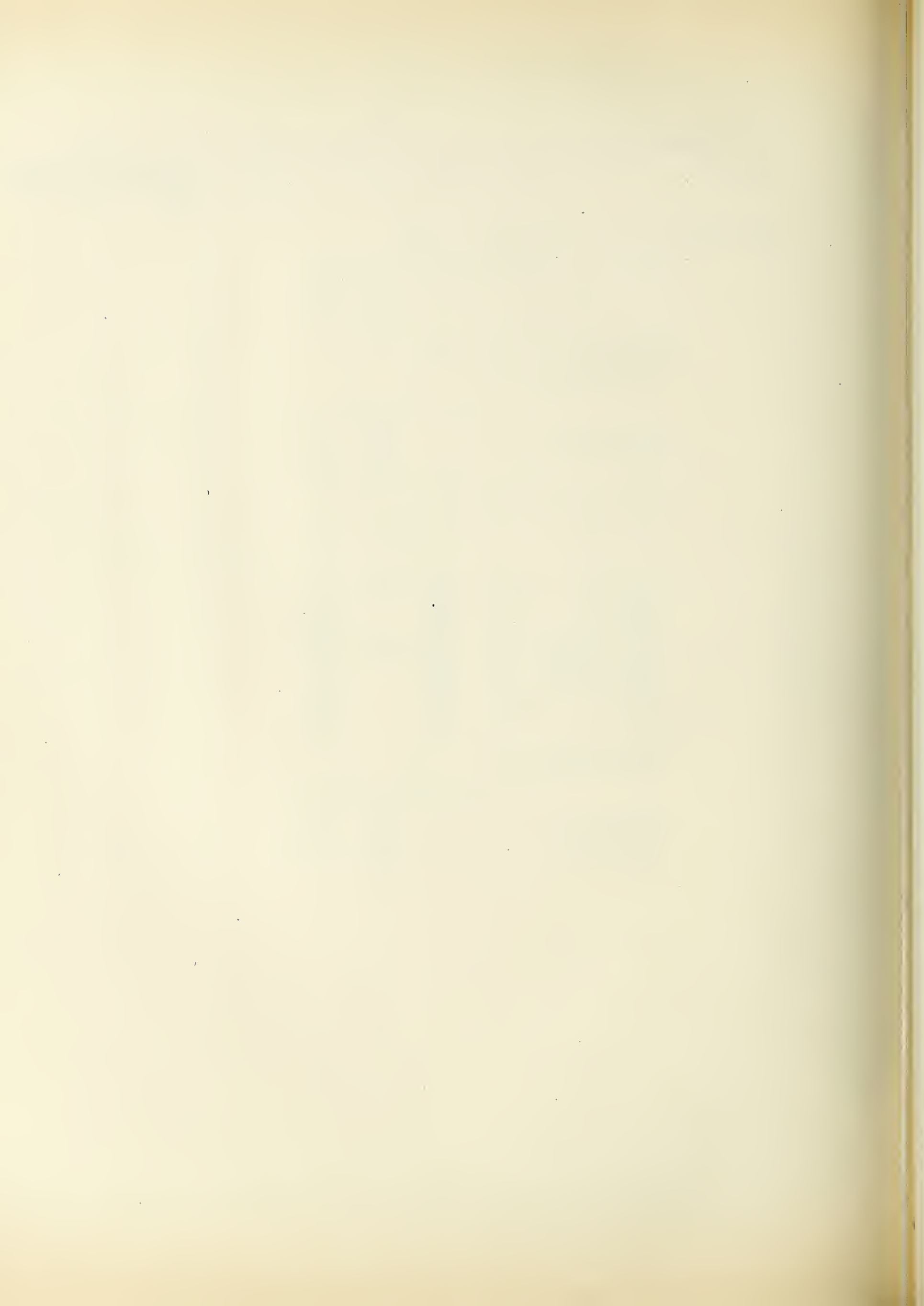
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
|--|---|---|------------------|-----------------|------------------|--|--|--|--------------------------------------|------------|---|---|----------------------------------|----------|---------------|---------------|----------------------------------|----------|---|--------------|----------------------------------|----------|---|---|----------------------------------|----------|---|---|----------------------------------|----------|---|---|----------------------------------|----------|---|-----------|----------------------------------|----------|---|--------------|----------------------------------|----------|---|--------------|-----------------------------------|----------|---|--------------|----------------------------------|----------|---|---|----------------------------------|----------|---|--------------|----------------------------------|----------|---|-----------|-----------------------------------|----------|---|--------------|------------------------------------|----------|---|--------------|-----------------------------------|----------|---|--------------|-----------------------------------|----------|---|--------------|------------------------------------|----------|---------------|--------------|-----------------------------------|----------|---|--------------|-----------------------------------|----------|---|--------------|------------------------------------|----------|---|--------------|------------------------------------|----------|---|--------------|------------------------------------|----------|---|-----------|---|----------|---|---|---|----------|---|---|--|----------|---|---|---|----------|---|---|---|----------|---|---|-------------------------------|----------|---|-----------|------------------------------|----------|---|-----------|-------------------------------|----------|----|-----------|------------------------------|----------|---|---|-------------------------------|----------|---|-----------|------------------------------|----------|---|-----------|------------------------------------|----------|---|--------------|---------------------------------|----------|---|--------------|----------------------------------|----------|---|-----------|---|----------|---|--------------|--------------------|----------|---|--------------|--------------------|----------|---|--------------|---------------------|----------|---|--------------|---------------------|----------|---|--------------|--|--|---|---|---------------|--|--|--|--|--|-----|----|--|--|-----|-----|---------------|--|--------------|-------------|------------|--|-----------|-----------|--------------------------------------|--|--|--|-----------------|--|----------|--------|-------------------------|--|-----------|-----------|-----------------------------|--|-----------|----------|--------------------------------------|--|--------|--------|--------------------------|--|-----------|-----------|------------|--|------------|------------|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>  |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| available forage and thereby greatly enlarging their stock carrying capacity; but it is hopeless for private owners of adjoining lands to clear and keep their lands cleared of these pests unless the Government continues its work on the public domain in cooperation with them. Furthermore, the losses of live stock in the national forests and other parts of the public domain are greatly reduced by the operations against predatory animals, and the increase of stock carried to maturity on these lands results in a further direct return.   |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| The amount under the proviso for the suppression of rabies in predatory wild animals is decreased from \$125,000 to \$123,600, due to the transfer of a clerk of class 2 to the statutory roll.  |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| <i>Food habits of birds and mammals.</i>   |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Assistant in charge..... per annum..</td><td>\$3,500.00</td><td>1</td><td>1</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,750.00</td><td>2(1 pt. time)</td><td>2(1 pt. time)</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,500.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,400.00</td><td>1</td><td>1</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,200.00</td><td>1</td><td>1</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,100.00</td><td>1</td><td>2</td></tr><tr><td>Assistant biologist..... do.....</td><td>2,000.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Assistant biologist..... do.....</td><td>1,800.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant biologist..... do.....</td><td>1,600.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Assistant biologists..... do.....</td><td>1,500.00</td><td>2</td><td>1 (pt. time)</td></tr><tr><td>Assistant biologist..... do.....</td><td>1,400.00</td><td>1</td><td>1</td></tr><tr><td>Assistant biologist..... do.....</td><td>1,380.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Technical assistant..... do.....</td><td>2,400.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Biological assistant..... do.....</td><td>2,100.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Biological assistants..... do.....</td><td>1,860.00</td><td>5</td><td>4 (pt. time)</td></tr><tr><td>Biological assistant..... do.....</td><td>1,800.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Biological assistant..... do.....</td><td>1,680.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Biological assistants..... do.....</td><td>1,620.00</td><td>2(1 pt. time)</td><td>2 (pt. time)</td></tr><tr><td>Biological assistant..... do.....</td><td>1,600.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Biological assistant..... do.....</td><td>1,560.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Biological assistants..... do.....</td><td>1,500.00</td><td>3</td><td>2 (pt. time)</td></tr><tr><td>Biological assistants..... do.....</td><td>1,400.00</td><td>3</td><td>2 (pt. time)</td></tr><tr><td>Biological assistants..... do.....</td><td>1,200.00</td><td>6</td><td>6 (temp.)</td></tr><tr><td>Predatory animal inspector..... do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr><tr><td>Predatory animal inspector..... do.....</td><td>1,620.00</td><td>1</td><td>1</td></tr><tr><td>Predatory animal inspectors..... do.....</td><td>1,500.00</td><td>6</td><td>6</td></tr><tr><td>Predatory animal inspector..... do.....</td><td>1,400.00</td><td>1</td><td>1</td></tr><tr><td>Predatory animal inspector..... do.....</td><td>1,380.00</td><td>1</td><td>1</td></tr><tr><td>Field assistants..... do.....</td><td>1,500.00</td><td>2</td><td>1 (temp.)</td></tr><tr><td>Field assistant..... do.....</td><td>1,400.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Field assistants..... do.....</td><td>1,200.00</td><td>10</td><td>8 (temp.)</td></tr><tr><td>Field assistant..... do.....</td><td>1,140.00</td><td>1</td><td>1</td></tr><tr><td>Field assistants..... do.....</td><td>1,020.00</td><td>2</td><td>1 (temp.)</td></tr><tr><td>Fur farm keeper..... do.....</td><td>1,000.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Scientific preparator..... do.....</td><td>1,200.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Scientific indexer..... do.....</td><td>1,200.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Executive assistant..... do.....</td><td>1,800.00</td><td>1</td><td>1 (temp.)</td></tr><tr><td>Assistant in economic investigations..... do.....</td><td>2,520.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Clerk..... do.....</td><td>1,800.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Clerk..... do.....</td><td>1,400.00</td><td>1</td><td>1 (pt. time)</td></tr><tr><td>Clerks..... do.....</td><td>1,200.00</td><td>2</td><td>2 (pt. time)</td></tr><tr><td>Clerks..... do.....</td><td>1,100.00</td><td>2</td><td>2 (pt. time)</td></tr><tr><td>Preparators, field assistants, and watchmen, \$900 to \$480..... do.....</td><td></td><td>1</td><td>4</td></tr><tr><td colspan="4"><i>Wages:</i></td></tr><tr><td>Miscellaneous temporary labor, including horses, wagons, and equipment, \$135 to \$60.. per month.....</td><td></td><td>130</td><td>98</td></tr><tr><td></td><td></td><td>196</td><td>159</td></tr><tr><td>Salaries.....</td><td></td><td>\$104,900.00</td><td>\$54,434.39</td></tr><tr><td>Wages.....</td><td></td><td>78,500.00</td><td>23,299.83</td></tr><tr><td colspan="4"><i>Other objects of expenditure:</i></td></tr><tr><td>Stationery.....</td><td></td><td>2,000.00</td><td>524.73</td></tr><tr><td>Traveling expenses.....</td><td></td><td>54,000.00</td><td>29,744.06</td></tr><tr><td>Equipment and material.....</td><td></td><td>55,200.00</td><td>2,017.08</td></tr><tr><td>Telephone and telegraph service.....</td><td></td><td>500.00</td><td>575.52</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>17,500.00</td><td>12,680.06</td></tr><tr><td>Total.....</td><td></td><td>312,600.00</td><td>123,275.67</td></tr></table> | Employees.  | Rate.   | Estimated, 1921. | Expended, 1919. | <i>Salaries:</i> |  |  |  | Assistant in charge..... per annum.. | \$3,500.00 | 1 | 1 | Assistant biologist..... do..... | 2,750.00 | 2(1 pt. time) | 2(1 pt. time) | Assistant biologist..... do..... | 2,500.00 | 1 | 1 (pt. time) | Assistant biologist..... do..... | 2,400.00 | 1 | 1 | Assistant biologist..... do..... | 2,200.00 | 1 | 1 | Assistant biologist..... do..... | 2,100.00 | 1 | 2 | Assistant biologist..... do..... | 2,000.00 | 1 | 1 (temp.) | Assistant biologist..... do..... | 1,800.00 | 1 | 1 (pt. time) | Assistant biologist..... do..... | 1,600.00 | 1 | 1 (pt. time) | Assistant biologists..... do..... | 1,500.00 | 2 | 1 (pt. time) | Assistant biologist..... do..... | 1,400.00 | 1 | 1 | Assistant biologist..... do..... | 1,380.00 | 1 | 1 (pt. time) | Technical assistant..... do..... | 2,400.00 | 1 | 1 (temp.) | Biological assistant..... do..... | 2,100.00 | 1 | 1 (pt. time) | Biological assistants..... do..... | 1,860.00 | 5 | 4 (pt. time) | Biological assistant..... do..... | 1,800.00 | 1 | 1 (pt. time) | Biological assistant..... do..... | 1,680.00 | 1 | 1 (pt. time) | Biological assistants..... do..... | 1,620.00 | 2(1 pt. time) | 2 (pt. time) | Biological assistant..... do..... | 1,600.00 | 1 | 1 (pt. time) | Biological assistant..... do..... | 1,560.00 | 1 | 1 (pt. time) | Biological assistants..... do..... | 1,500.00 | 3 | 2 (pt. time) | Biological assistants..... do..... | 1,400.00 | 3 | 2 (pt. time) | Biological assistants..... do..... | 1,200.00 | 6 | 6 (temp.) | Predatory animal inspector..... do..... | 1,800.00 | 1 | 1 | Predatory animal inspector..... do..... | 1,620.00 | 1 | 1 | Predatory animal inspectors..... do..... | 1,500.00 | 6 | 6 | Predatory animal inspector..... do..... | 1,400.00 | 1 | 1 | Predatory animal inspector..... do..... | 1,380.00 | 1 | 1 | Field assistants..... do..... | 1,500.00 | 2 | 1 (temp.) | Field assistant..... do..... | 1,400.00 | 1 | 1 (temp.) | Field assistants..... do..... | 1,200.00 | 10 | 8 (temp.) | Field assistant..... do..... | 1,140.00 | 1 | 1 | Field assistants..... do..... | 1,020.00 | 2 | 1 (temp.) | Fur farm keeper..... do..... | 1,000.00 | 1 | 1 (temp.) | Scientific preparator..... do..... | 1,200.00 | 1 | 1 (pt. time) | Scientific indexer..... do..... | 1,200.00 | 1 | 1 (pt. time) | Executive assistant..... do..... | 1,800.00 | 1 | 1 (temp.) | Assistant in economic investigations..... do..... | 2,520.00 | 1 | 1 (pt. time) | Clerk..... do..... | 1,800.00 | 1 | 1 (pt. time) | Clerk..... do..... | 1,400.00 | 1 | 1 (pt. time) | Clerks..... do..... | 1,200.00 | 2 | 2 (pt. time) | Clerks..... do..... | 1,100.00 | 2 | 2 (pt. time) | Preparators, field assistants, and watchmen, \$900 to \$480..... do..... |  | 1 | 4 | <i>Wages:</i> |  |  |  | Miscellaneous temporary labor, including horses, wagons, and equipment, \$135 to \$60.. per month..... |  | 130 | 98 |  |  | 196 | 159 | Salaries..... |  | \$104,900.00 | \$54,434.39 | Wages..... |  | 78,500.00 | 23,299.83 | <i>Other objects of expenditure:</i> |  |  |  | Stationery..... |  | 2,000.00 | 524.73 | Traveling expenses..... |  | 54,000.00 | 29,744.06 | Equipment and material..... |  | 55,200.00 | 2,017.08 | Telephone and telegraph service..... |  | 500.00 | 575.52 | Miscellaneous items..... |  | 17,500.00 | 12,680.06 | Total..... |  | 312,600.00 | 123,275.67 |
| Employees.   | Rate.   | Estimated, 1921.  | Expended, 1919.  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| <i>Salaries:</i>   |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant in charge..... per annum..   | \$3,500.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,750.00  | 2(1 pt. time)   | 2(1 pt. time)    |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,500.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,400.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,200.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,100.00  | 1   | 2                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 2,000.00  | 1   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 1,800.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 1,600.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologists..... do.....  | 1,500.00  | 2   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 1,400.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant biologist..... do.....   | 1,380.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Technical assistant..... do.....   | 2,400.00  | 1   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistant..... do.....  | 2,100.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistants..... do.....   | 1,860.00  | 5   | 4 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistant..... do.....  | 1,800.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistant..... do.....  | 1,680.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistants..... do.....   | 1,620.00  | 2(1 pt. time)   | 2 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistant..... do.....  | 1,600.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistant..... do.....  | 1,560.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistants..... do.....   | 1,500.00  | 3   | 2 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistants..... do.....   | 1,400.00  | 3   | 2 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Biological assistants..... do.....   | 1,200.00  | 6   | 6 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Predatory animal inspector..... do.....  | 1,800.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Predatory animal inspector..... do.....  | 1,620.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Predatory animal inspectors..... do.....   | 1,500.00  | 6   | 6                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Predatory animal inspector..... do.....  | 1,400.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Predatory animal inspector..... do.....  | 1,380.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Field assistants..... do.....  | 1,500.00  | 2   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Field assistant..... do.....   | 1,400.00  | 1   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Field assistants..... do.....  | 1,200.00  | 10  | 8 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Field assistant..... do.....   | 1,140.00  | 1   | 1                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Field assistants..... do.....  | 1,020.00  | 2   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Fur farm keeper..... do.....   | 1,000.00  | 1   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Scientific preparator..... do.....   | 1,200.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Scientific indexer..... do.....  | 1,200.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Executive assistant..... do.....   | 1,800.00  | 1   | 1 (temp.)        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Assistant in economic investigations..... do.....  | 2,520.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Clerk..... do.....   | 1,800.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Clerk..... do.....   | 1,400.00  | 1   | 1 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Clerks..... do.....  | 1,200.00  | 2   | 2 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Clerks..... do.....  | 1,100.00  | 2   | 2 (pt. time)     |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Preparators, field assistants, and watchmen, \$900 to \$480..... do.....   |   | 1   | 4                |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| <i>Wages:</i>  |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Miscellaneous temporary labor, including horses, wagons, and equipment, \$135 to \$60.. per month.....   |   | 130   | 98               |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
|  |   | 196   | 159              |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Salaries.....  |   | \$104,900.00  | \$54,434.39      |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Wages.....   |   | 78,500.00   | 23,299.83        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| <i>Other objects of expenditure:</i>   |   |   |                  |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Stationery.....  |   | 2,000.00  | 524.73           |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Traveling expenses.....  |   | 54,000.00   | 29,744.06        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Equipment and material.....  |   | 55,200.00   | 2,017.08         |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Telephone and telegraph service.....   |   | 500.00  | 575.52           |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Miscellaneous items.....   |   | 17,500.00   | 12,680.06        |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |
| Total.....   |   | 312,600.00  | 123,275.67       |                 |                  |  |  |  |                                      |            |   |   |                                  |          |               |               |                                  |          |   |              |                                  |          |   |   |                                  |          |   |   |                                  |          |   |   |                                  |          |   |           |                                  |          |   |              |                                  |          |   |              |                                   |          |   |              |                                  |          |   |   |                                  |          |   |              |                                  |          |   |           |                                   |          |   |              |                                    |          |   |              |                                   |          |   |              |                                   |          |   |              |                                    |          |               |              |                                   |          |   |              |                                   |          |   |              |                                    |          |   |              |                                    |          |   |              |                                    |          |   |           |   |          |   |   |   |          |   |   |  |          |   |   |   |          |   |   |   |          |   |   |                               |          |   |           |                              |          |   |           |                               |          |    |           |                              |          |   |   |                               |          |   |           |                              |          |   |           |                                    |          |   |              |                                 |          |   |              |                                  |          |   |           |   |          |   |              |                    |          |   |              |                    |          |   |              |                     |          |   |              |                     |          |   |              |  |  |   |   |               |  |  |  |  |  |     |    |  |  |     |     |               |  |              |             |            |  |           |           |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                                      |  |        |        |                          |  |           |           |            |  |            |            |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                          | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|--------------------------|---|---|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>   |            |                  |                          |   |   |
| <i>Exterminating ground squirrels on national forests and public lands.</i>   |            |                  |                          |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.          |   |   |
| Salaries:   |            | <i>Number.</i>   | <i>Number.</i>           |   |   |
| Biological assistant..... per annum..   | \$1,620.00 | 1 (pt. time)     | ..                       |   |   |
| Biological assistant.....do.....  | 1,200.00   | 1                | ..                       |   |   |
| Wages:  |            |                  |                          |   |   |
| Miscellaneous temporary labor, including horses, wagons, and equipment, \$135 to \$60.....per month..   |            | 30               | 52                       |   |   |
|   |            | 32               | 52                       |   |   |
| Salaries.....   |            | \$2,415.00       |                          |   |   |
| Wages.....  |            | 8,585.00         | \$5,689.17               |   |   |
| Other objects of expenditure:   |            |                  |                          |   |   |
| Traveling expenses.....   |            | 1,000.00         | 1,202.94                 |   |   |
| Equipment and material.....   |            | 2,000.00         |                          |   |   |
| Miscellaneous items.....  |            | 1,000.00         | 6,968.66                 |   |   |
| Total.....  |            | 15,000.00        | 13,860.77                |   |   |
| <i>Destruction of noxious animals on national forests and public domain.</i>  |            |                  |                          |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.          |   |   |
| Salaries:   |            | <i>Number.</i>   | <i>Number.</i>           |   |   |
| Assistant biologist..... per annum..  | \$2,750.00 | 1 (pt. time)     | 1 (pt. time)             |   |   |
| Biological assistant.....do.....  | 1,920.00   | 1 (pt. time)     | ..                       |   |   |
| Biological assistant.....do.....  | 1,800.00   | ..               | 1 (pt. time)             |   |   |
| Biological assistant.....do.....  | 1,680.00   | ..               | 1 (pt. time)             |   |   |
| Biological assistant.....do.....  | 1,600.00   | ..               | 1 (pt. time)             |   |   |
| Biological assistant.....do.....  | 1,400.00   | ..               | 1 (pt. time)             |   |   |
| Predatory animal inspector.....do.....  | 2,100.00   | 1 (pt. time)     | 1 (pt. time)             |   |   |
| Predatory animal inspectors.....do.....   | 1,800.00   | 4(1 pt. time)    | 4 (pt. time)             |   |   |
| Predatory animal inspectors.....do.....   | 1,740.00   | 2                | 2 (pt. time)             |   |   |
| Predatory animal inspector.....do.....  | 1,560.00   | 1 (pt. time)     | 1 (pt. time)             |   |   |
| Predatory animal inspector.....do.....  | 1,500.00   | 1                | 1 (temp.)                |   |   |
| Predatory animal inspector.....do.....  | 1,350.00   | ..               | 1 (pt. time)             |   |   |
| Field assistants.....do.....  | 1,500.00   | ..               | 2 (temp.)                |   |   |
| Field assistant.....do.....   | 1,200.00   | ..               | 1 (temp.)                |   |   |
| Clerk.....do.....   | 1,500.00   | ..               | 1 (pt. time)             |   |   |
| Clerks.....do.....  | 1,400.00   | ..               | 2 (1 temp.: 1 pt. time). |   |   |
| Clerk.s.....do.....   | 1,200.00   | ..               | 2 (1 temp.)              |   |   |
| Clerk.....do.....   | 1,100.00   | ..               | 1 (pt. time)             |   |   |
| Wages:  |            |                  |                          |   |   |
| Miscellaneous temporary labor, including horses, wagons, and equipment, \$200 to \$60.....per month..   |            | 250              | 146                      |   |   |
|   |            | 261              | 170                      |   |   |
| Salaries.....   |            | \$14,956.00      | \$19,501.87              |   |   |
| Wages.....  |            | 90,000.00        | 73,639.75                |   |   |
| Other objects of expenditure:   |            |                  |                          |   |   |
| Traveling expenses.....   |            | 7,500.00         | 13,250.51                |   |   |
| Equipment and material.....   |            | 3,500.00         | 954.91                   |   |   |
| Miscellaneous items.....  |            | 7,844.00         | 9,229.42                 |   |   |
| Total.....  |            | 123,800.00       | 116,576.46               |   |   |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Biological Survey—Continued.

## Suppression of rabies in predatory wild animals.

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>     |
| Assistant biologist.....per annum..   | \$2,750.00 | 1 (pt. time)        | ..                 |
| Biological assistant.....do.....  | 1,920.00   | 1 (pt. time)        | 1 (pt. time)       |
| Biological assistant.....do.....  | 1,800.00   | ..                  | 1 (pt. time)       |
| Predatory animal inspector.....do.....  | 2,100.00   | 1 (pt. time)        | 1 (pt. time)       |
| Predatory animal inspector.....do.....  | 1,800.00   | 1 (pt. time)        | 1 (pt. time)       |
| Predatory animal inspector.....do.....  | 1,560.00   | 1 (pt. time)        | 1 (pt. time)       |
| Predatory animal inspector.....do.....  | 1,380.00   | 1                   | ..                 |
| Clerk.....do.....   | 1,500.00   | ..                  | 1 (pt. time)       |
| Clerk.....do.....   | 1,400.00   | ..                  | 1 (pt. time)       |
| Clerk.....do.....   | 1,320.00   | ..                  | 1 (temp.)          |
| Clerk.....do.....   | 1,200.00   | ..                  | 1 (temp.)          |
| Clerk.....do.....   | 1,100.00   | ..                  | 1 (pt. time)       |
| Wages:  |            |                     |                    |
| Miscellaneous temporary labor,<br>including horses, wagons, and<br>equipment, \$200 to \$60.....per month.. |            | 150                 | 192                |
|   |            | 156                 | 202                |
| Salaries.....   |            | \$6,017.00          | \$6,706.83         |
| Wages.....  |            | 100,000.00          | 106,668.88         |
| Other objects of expenditure:   |            |                     |                    |
| Traveling expenses.....   |            | 7,500.00            | 4,008.36           |
| Equipment and material.....   |            | 5,600.00            | 540.82             |
| Miscellaneous items.....  |            | 4,483.00            | 4,010.41           |
| Total.....  |            | 123,600.00          | 121,935.30         |

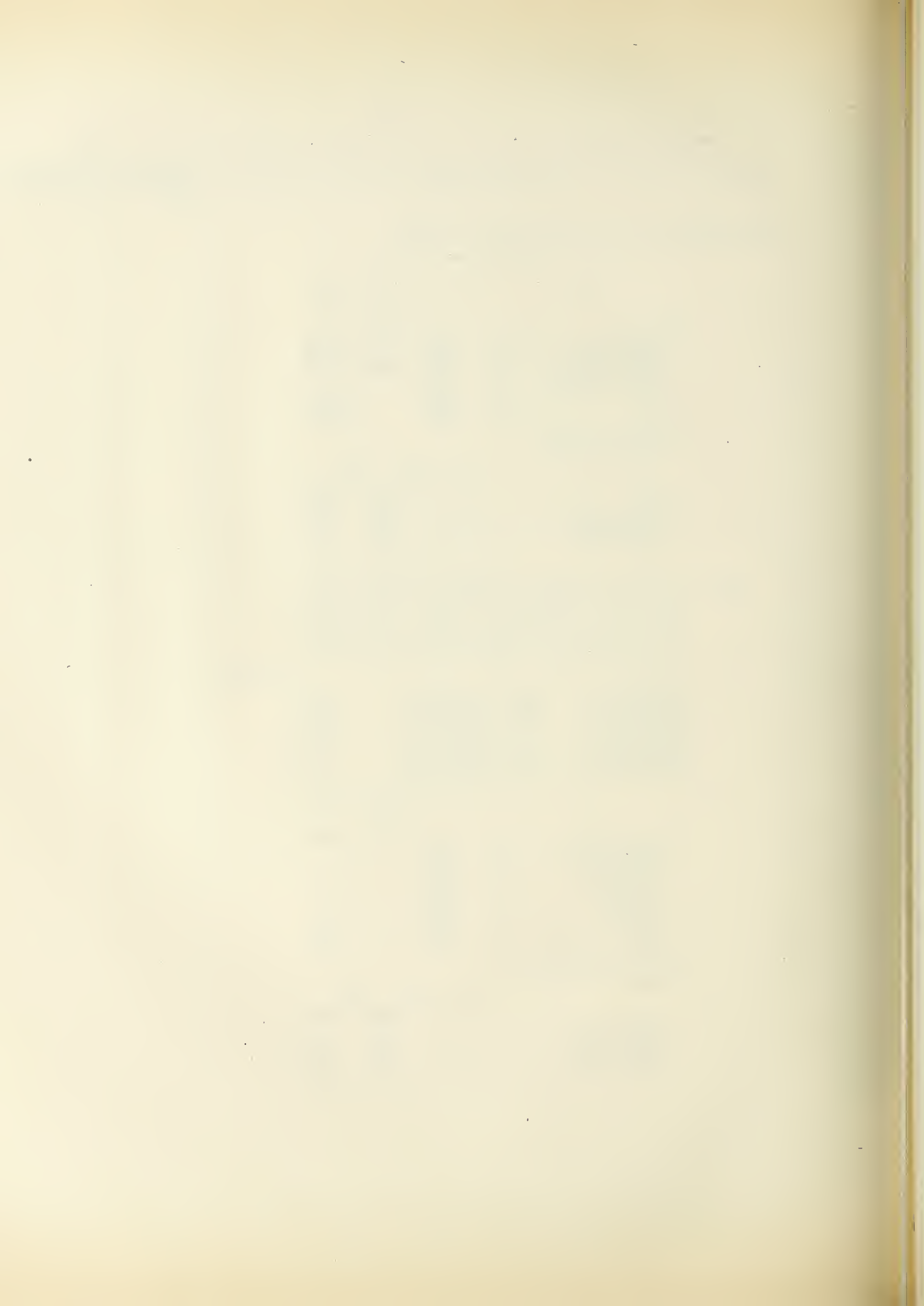
- (32) For biological investigations, including the relations, habits, geographic distribution, and migrations of animals and plants, and the preparation of maps of the life zones (acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1) .....

\$24,400.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$18,000 | Estimate for 1912..... | \$25,000 |
| Appropriation for 1912..... | 20,000   | Estimate for 1913..... | 20,000   |
| Appropriation for 1913..... | 20,000   | Estimate for 1914..... | 25,000   |
| Appropriation for 1914..... | 25,000   | Estimate for 1915..... | 21,500   |
| Appropriation for 1915..... | 26,500   | Estimate for 1916..... | 26,500   |
| Appropriation for 1916..... | 26,500   | Estimate for 1917..... | 26,500   |
| Appropriation for 1917..... | 23,500   | Estimate for 1918..... | 30,600   |
| Appropriation for 1918..... | 25,600   | Estimate for 1919..... | 25,600   |
| Appropriation for 1919..... | 25,600   | Estimate for 1920..... | 24,400   |
| Appropriation for 1920..... | 24,400   | Estimate for 1921..... | 24,400   |

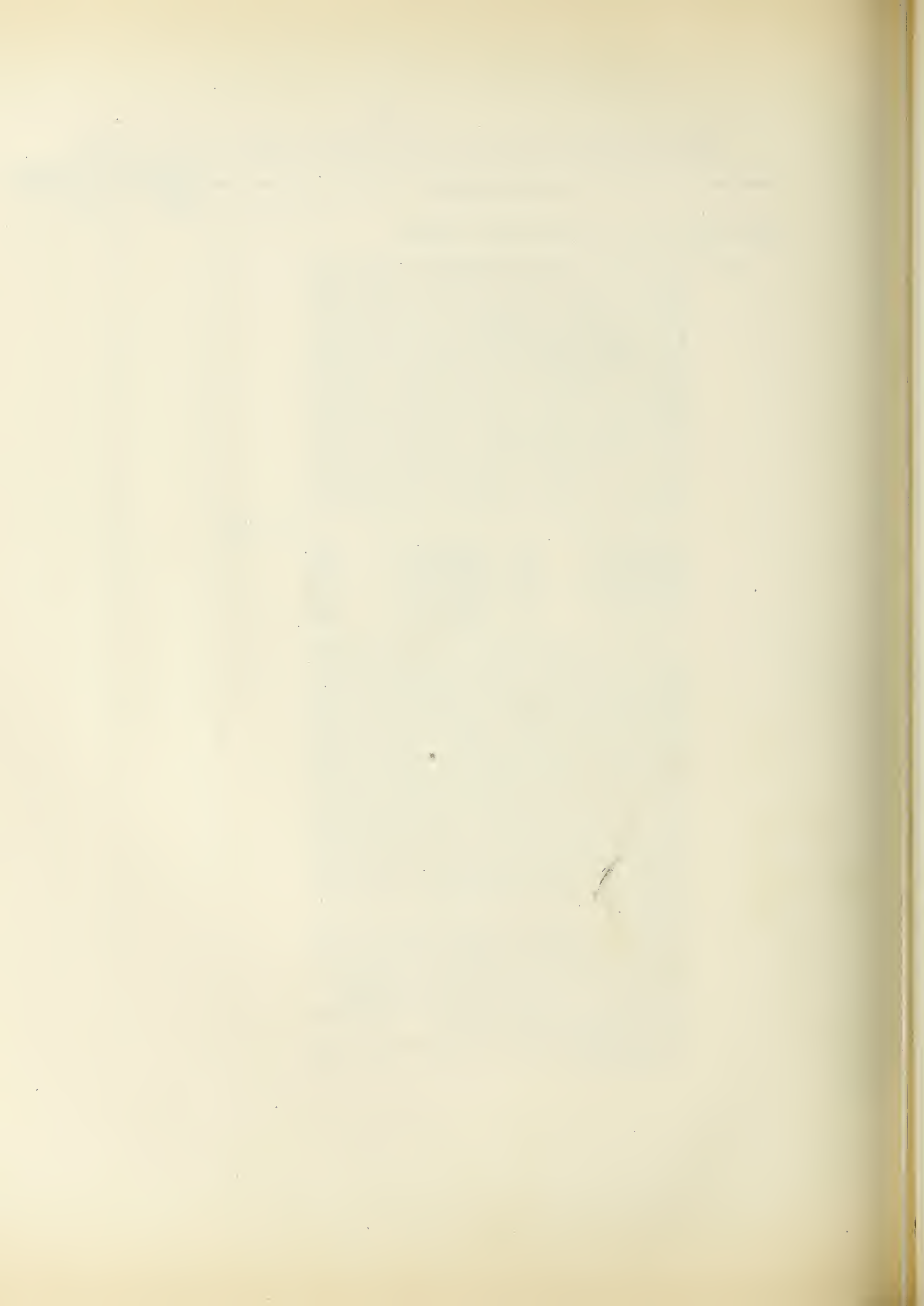
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>     |
| Assistant biologist in charge.....per annum..                                   | \$3,000.00 | 1                   | ..                 |
| Chief field naturalist.....do.....  | 3,000.00   | 1                   | 1                  |
| Assistant biologist.....do.....   | 2,400.00   | 1                   | 1                  |
| Assistant biologists.....do.....  | 2,220.00   | 1                   | 2 (1 pt. time.)    |
| Assistant biologist.....do.....   | 2,200.00   | 1                   | 1                  |
| Assistant biologist.....do.....   | 2,000.00   | 1                   | 1                  |
| Scientific preparator.....do.....   | 1,400.00   | 1                   | 1                  |
| Field assistant.....do.....   | 2,400.00   | ..                  | 1 (temp.)          |
| Field assistant.....do.....   | 1,500.00   | 1                   | 1                  |
| Field assistants.....do.....  | 1,200.00   | 6 (temp.)           | 2 (temp.)          |
| Preparator.....do.....  | 1,200.00   | ..                  | 1 (temp.)          |
| Clerk.....do.....   | 1,200.00   | ..                  | 2 (pt. time.)      |
| Field assistant, messenger<br>and student assistant, \$900 to \$300.....do..... |            | 1                   | 3 (1 temp.)        |
| Wages:  |            |                     |                    |
| Miscellaneous temporary labor,<br>\$75 to \$10.....per month..                  |            | 5                   | 5                  |
|   |            | 20                  | 22                 |
| Salaries.....   |            | \$20,400.00         | \$19,171.71        |
| Wages.....  |            | 200.00              | 181.32             |
| Other objects of expenditure:   |            |                     |                    |
| Traveling expenses.....   |            | 2,500.00            | 4,134.32           |
| Equipment and material.....   |            | 700.00              | 260.17             |
| Miscellaneous items.....  |            | 600.00              | 1,477.53           |
| Total.....  |            | 24,400.00           | 25,225.05          |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>   |   |   |
| (33) For all necessary expenses for enforcing the provisions of the migratory-bird treaty act of July 3, 1918 (Fortieth Statutes at Large, page 755), and for cooperation with local authorities in the protection of migratory birds, and for necessary investigations connected therewith, <del>[\$147,000]</del> \$250,000: <i>Provided</i> , That of this sum not more than <del>[\$22,000]</del> \$20,500 may be used for the enforcement of sections 241, 242, 243, and 244 of the act approved March 4, 1909, entitled "An Act to codify, revise, and amend the penal laws of the United States," and for the enforcement of section 1 of the act approved May 25, 1900, entitled "An Act to enlarge the powers of the Department of Agriculture, prohibit the transportation by interstate commerce of game killed in violation of local laws, and for other purposes," including all necessary investigations in connection therewith ( <i>acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1</i> ).....   | \$250,000.00  |   |
| Appropriation for 1912..... \$12,000  | Estimate for 1912..... \$12,000                                   |   |
| Appropriation for 1913..... 20,000  | Estimate for 1913..... 12,000                                     |   |
| Appropriation for 1914..... 50,000  | Estimate for 1914..... 18,000                                     |   |
| Appropriation for 1915..... 50,000  | Estimate for 1915..... 50,000                                     |   |
| Appropriation for 1916..... 50,000  | Estimate for 1916..... 50,000                                     |   |
| Appropriation for 1917..... 50,000  | Estimate for 1917..... 99,680                                     |   |
| Appropriation for 1918..... 50,000  | Estimate for 1918..... 100,000                                    |   |
| Appropriation for 1919..... 50,000  | Estimate for 1919..... 50,000                                     |   |
| Appropriation for 1920..... 147,000   | Estimate for 1920..... 197,000                                    |   |
|   | Estimate for 1921..... 250,000                                    |   |
| <p>NOTE.—There is an apparent increase in the above item of \$103,000, but taking into consideration transfers to the statutory roll aggregating \$4,500, the actual increase is \$107,500. This additional amount is urgently needed in order that the department may comply with the widespread and insistent demand for a more adequate enforcement of the law than is possible with the limited funds available at the present time and to secure needed information for use as a basis for future regulations. Under present appropriations not to exceed 37 game wardens can be employed in the United States and Alaska, a number entirely inadequate to patrol the entire country. The State of New York alone spends more than \$300,000 a year on its game and fish warden service; Illinois, about \$125,000; and California, \$100,000. For a proper enforcement of the migratory bird treaty act it is desired to divide the United States into ten districts, with a district game warden in charge of each. It is also important to place 28 additional wardens in areas where it has hitherto been impossible to have any or more than a very slight administration of the law. The constitutions of 9 States prohibit State officers and employees from cooperating with and receiving remuneration from the Federal Government in the enforcement of laws for the protection of migratory birds. Hence it will be necessary to provide United States game wardens in those States wholly in the service of the Federal Government. For the satisfactory cooperation with State game departments it is important also that at least 100 deputy game wardens be employed, at salaries of \$300 per annum and actual traveling expenses estimated at \$200 each.</p> <p>In addition to administering the regulatory powers of the migratory bird treaty act, it is necessary to conduct investigations in many parts of the country in relation to the distribution and abundance of wild fowl and for the purpose of securing information concerning depredations of certain species of birds on crops. This information is absolutely necessary as the basis for changes in the regulations and for the control of species of birds which may prove injurious to agricultural or other interests.</p> <p>The amount of increase estimated for the general administration of the law during 1921 is \$97,500, for use mainly in the employment of wardens, and for investigational work, \$10,000.</p> <p>The subappropriation of \$22,000 for the enforcement of the Lacey Act is reduced to \$20,500 by reason of the transfer of 1 clerk at \$1,500 to the statutory roll.</p> |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                        |                           | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------------|---------------------------|---|---|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>   |            |                        |                           |   |   |
| <i>Protection of migratory birds.</i>   |            |                        |                           |   |   |
| Employees.  | Rate.      | Estimated, 1921.       | Expended, 1919.           |   |   |
| Salaries:   |            |                        |                           |   |   |
| Chief, United States game warden.....per annum..  | \$3,500.00 | Number.<br>1           | Number.<br>1 (pt. time)   |   |   |
| Assistant chief United States game warden.....do....  | 3,000.00   | 1                      | ..                        |   |   |
| Administrative assistant.....do....   | 2,500.00   | ..                     | 1 (temp.)                 |   |   |
| Expert in game conservation.....do....  | 3,250.00   | ..                     | 1 (pt. time)              |   |   |
| United States district game wardens.....do....  | 2,500.00   | 5 (new)                | ..                        |   |   |
| United States game wardens.....do....   | 1,800.00   | 10 (3 new; 6 pt. time) | 5 (pt. time)              |   |   |
| United States game wardens.....do....   | 1,500.00   | 40 (10 new)            | 18 (12 temp.; 4 pt. time) |   |   |
| United States game wardens.....do....   | 1,575.00   | ..                     | 1 (temp.)                 |   |   |
| United States deputy game warden.....do....   | 1,500.00   | ..                     | 1 (temp.)                 |   |   |
| United States deputy game warden.....do....   | 1,200.00   | ..                     | 1 (pt. time)              |   |   |
| District inspectors.....do....  | 1,500.00   | ..                     | 3 (temp.)                 |   |   |
| Assistant biologist.....do....  | 2,220.00   | 1                      | 1 (pt. time)              |   |   |
| Assistant biologist.....do....  | 2,100.00   | 1                      | ..                        |   |   |
| Assistant biologist.....do....  | 1,800.00   | 1 (new)                | ..                        |   |   |
| Assistant biologist.....do....  | 1,600.00   | 1                      | ..                        |   |   |
| Assistant biologist.....do....  | 1,500.00   | 2 (new)                | ..                        |   |   |
| Field assistants.....do....   | 1,500.00   | 4 (temp.)              | ..                        |   |   |
| Clerk.....do....  | 1,400.00   | 2                      | 1 (pt. time)              |   |   |
| Clerk.....do....  | 1,200.00   | 1                      | 1 (pt. time)              |   |   |
| Clerk.....do....  | 1,100.00   | ..                     | 1 (pt. time)              |   |   |
| United States deputy game wardens, \$900 to \$1.....do....  |            | 100                    | 250                       |   |   |
| Wages:  |            |                        |                           |   |   |
| Miscellaneous temporary labor, \$7 to \$1.....per diem..  |            | ..                     | 10                        |   |   |
|   |            | 170                    | 296                       |   |   |
| Salaries.....   |            | \$137,195.00           | \$25,027.03               |   |   |
| Wages.....  |            |                        | 160.67                    |   |   |
| Other objects of expenditure:   |            |                        |                           |   |   |
| Traveling expenses.....   |            | \$1,800.00             | 18,989.89                 |   |   |
| Equipment and material.....   |            | 5,000.00               | 4,734.57                  |   |   |
| Miscellaneous items.....  |            | 5,505.00               | 1,926.12                  |   |   |
| Total.....  |            | 229,500.00             | 50,838.28                 |   |   |
| <i>Game preservation.</i>   |            |                        |                           |   |   |
| Employees.  | Rate.      | Estimated, 1921.       | Expended, 1919.           |   |   |
| Salaries:   |            |                        |                           |   |   |
| Chief, United States game warden.....per annum..  | \$3,500.00 | Number.<br>..          | Number.<br>1 (pt. time)   |   |   |
| Expert in game conservation.....do....  | 3,250.00   | 1                      | 1 (pt. time)              |   |   |
| Assistant.....do....  | 2,500.00   | 1 (pt. time)           | 1 (pt. time)              |   |   |
| Assistant.....do....  | 1,600.00   | 1                      | 1                         |   |   |
| Clerk.....do....  | 1,800.00   | ..                     | 1 (pt. time)              |   |   |
| Clerk.....do....  | 1,500.00   | ..                     | 1 (pt. time)              |   |   |
| Clerk.....do....  | 1,400.00   | ..                     | 1 (pt. time)              |   |   |
| Clerk.....do....  | 1,200.00   | ..                     | 1 (temp.)                 |   |   |
| United States game wardens.....do....   | 1,800.00   | 6 (pt. time)           | 6 (pt. time)              |   |   |
| United States game wardens.....do....   | 1,500.00   | 53 (pt. time)          | 6 (pt. time)              |   |   |
| United States deputy game warden.....do....   | 1,200.00   | ..                     | 1 (pt. time)              |   |   |
| Agents, collaborator and inspector, inspector of foreign birds and mammals, \$600 to \$100.....do....   |            | 8                      | 2                         |   |   |
| Wages:  |            |                        |                           |   |   |
| Miscellaneous temporary labor, \$5 to \$3.....per diem..  |            | ..                     | 7                         |   |   |
|   |            | 70                     | 30                        |   |   |
| Salaries.....   |            | \$14,000.00            | \$13,538.57               |   |   |
| Wages.....  |            |                        | 803.92                    |   |   |
| Other objects of expenditure:   |            |                        |                           |   |   |
| Traveling expenses.....   |            | 4,900.00               | 5,492.47                  |   |   |
| Equipment and material.....   |            |                        | 342.31                    |   |   |
| Miscellaneous items.....  |            | 1,600.00               | 358.39                    |   |   |
| Total.....  |            | 20,500.00              | 20,535.66                 |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

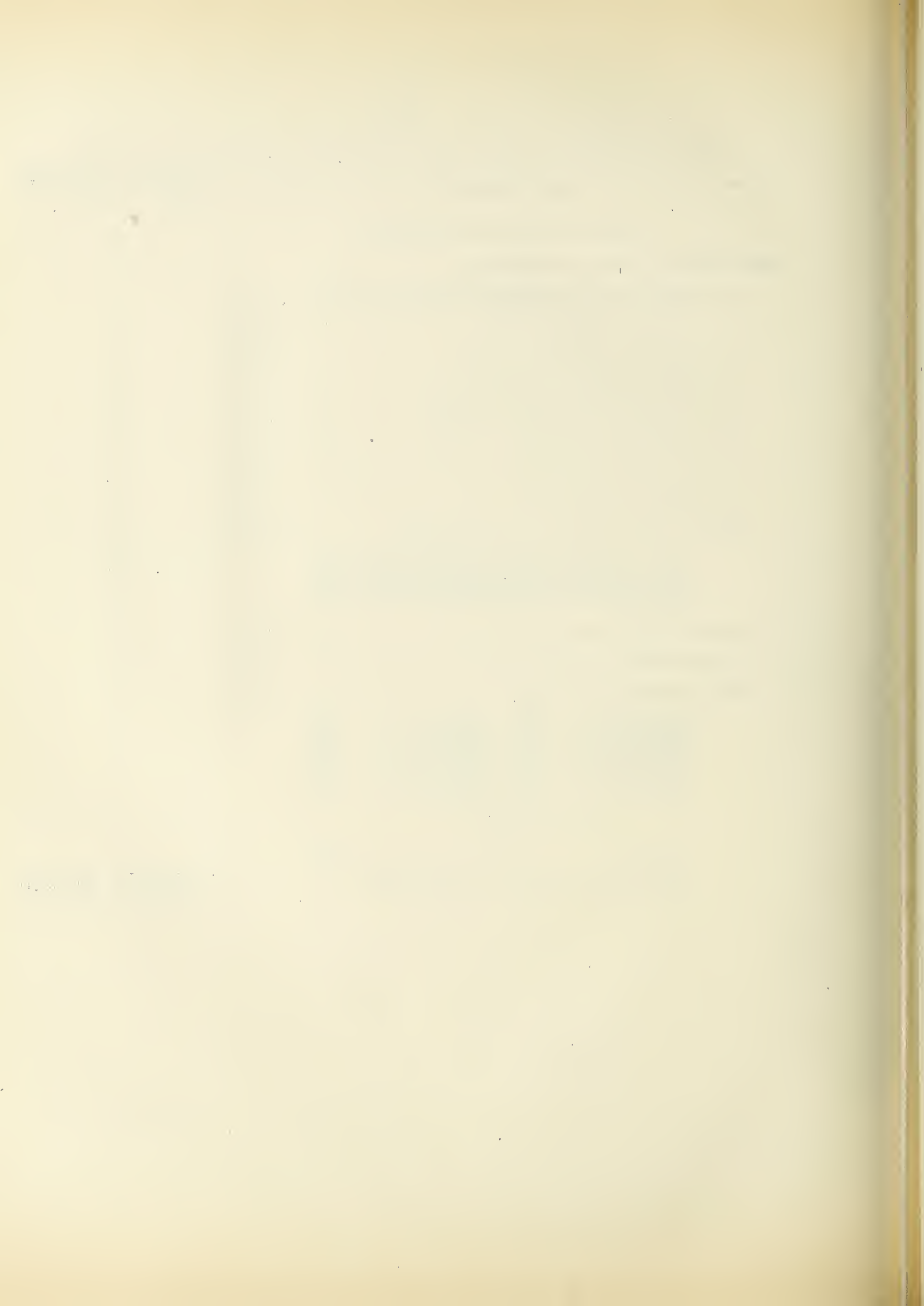
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|---|---|
| <i>General Expenses, Bureau of Biological Survey—Continued.</i>   |            |   |   |
| (34) For general administrative expenses connected with the above-mentioned lines of work, including cooperation with other Federal bureaus, departments, boards, and commissions, on request from them <b>["\$10,760"]</b> ( <i>acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; July 24, 1919, vol. 41, pp. 257, 258, sec. 1</i> ) ----- |            | \$15,000.00   |   |
| Appropriation for 1911 .....  | \$12,100   | Estimate for 1912.....  | \$14,200  |
| Appropriation for 1912 .....  | 14,200     | Estimate for 1913.....  | 13,300  |
| Appropriation for 1913 .....  | 13,300     | Estimate for 1914.....  | 15,000  |
| Appropriation for 1914 .....  | 14,000     | Estimate for 1915.....  | 15,000  |
| Appropriation for 1915 .....  | 15,000     | Estimate for 1916.....  | 13,320  |
| Appropriation for 1916 .....  | 13,320     | Estimate for 1917.....  | 12,560  |
| Appropriation for 1917 .....  | 12,560     | Estimate for 1918.....  | 15,000  |
| Appropriation for 1918 .....  | 12,560     | Estimate for 1919.....  | 10,670  |
| Appropriation for 1919 .....  | 10,760     | Estimate for 1920.....  | 10,760  |
| Appropriation for 1920 .....  | 10,760     | Estimate for 1921.....  | 15,000  |
| NOTE.—The increase of \$4,240 recommended for administrative expenses is necessitated by the rapidly growing activities of the bureau and the demands by other bureaus and departments for increased cooperation.   |            |   |   |
| Employees.  | Rate.      | Estimated, 1921.  | Expended, 1919.   |
| Salaries:   |            | Number.   | Number.   |
| Assistant chief of bureau..... per annum.....   | \$3,600.00 | 1   | 1   |
| Expert in game conservation..... do.....  | 3,250.00   | ..  | 1 (pt. time)  |
| Consulting biologist..... per diem.....   | 10.00      | ..  | 1   |
| Clerk..... per annum.....   | 1,800.00   | 1 (new)   | 1 (pt. time)  |
| Clerk..... do.....  | 1,400.00   | 2 (temp.)   | 1 (pt. time)  |
| Clerk..... do.....  | 1,200.00   | ..  | 2 (temp.)   |
| Clerk..... do.....  | 1,000.00   | ..  | 1 (temp.)   |
| Clerk and charwomen, \$900 to \$240..... do.....  | ..         | ..  | 3 (2 temp.; 1 pt. time)                                       |
| Wages:  |            |   |   |
| Laborers..... per diem.....   | 3.00       | 2 (temp.)   | 2 (temp.)   |
|   |            | 6   | 13  |
| Salaries.....   |            | \$7,200.00  | \$6,035.70  |
| Wages.....  |            | 300.00  | 256.00  |
| Other objects of expenditure:   |            |   |   |
| Stationery.....   |            | 500.00  | 461.37  |
| Traveling expenses.....   |            | 3,000.00  | 877.62  |
| Equipment and material.....   |            | 2,500.00  | 849.92  |
| Telephone and telegraph service.....  |            | 250.00  | 227.46  |
| Miscellaneous items.....  |            | 1,250.00  | 861.07  |
| Total.....  |            | 15,000.00   | 9,569.14  |
| In all, for general expenses .....  |            | \$909,135.00  | \$686,200.00  |
| Appropriation for 1911.....   | \$71,520   | Estimate for 1912.....  | \$101,000   |
| Appropriation for 1912.....   | 115,700    | Estimate for 1913.....  | 108,300   |
| Appropriation for 1913.....   | 166,300    | Estimate for 1914.....  | 143,000   |
| Appropriation for 1914.....   | 141,000    | Estimate for 1915.....  | 233,500   |
| Appropriation for 1915.....   | 248,500    | Estimate for 1916.....  | 236,820   |
| Appropriation for 1916.....   | 411,820    | Estimate for 1917.....  | 449,880   |
| Deficiency act.....   | 75,000     |   |   |
| Appropriation for 1917.....   | 534,200    | Estimate for 1918.....  | 613,140   |
| Appropriation for 1918.....   | 545,700    | Estimate for 1919.....  | 538,090   |
| Appropriation for 1919.....   | 538,180    | Estimate for 1920.....  | 655,400   |
| Appropriation for 1920.....   | 686,200    | Estimate for 1921.....  | 909,135   |
| Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).  |            |   |   |
| GENERAL EXPENSES—BUREAU OF BIOLOGICAL SURVEY.   |            |   |   |
| 2 clerks, at \$1,800 each per annum.  |            |   |   |
| 1 clerk, \$1,500 per annum.   |            |   |   |
| 2 clerks, at \$1,400 each per annum.  |            |   |   |
| 8 clerks, at \$1,200 each per annum.  |            |   |   |
| 3 clerks, at \$1,100 each per annum.  |            |   |   |
| 1 clerk, \$1,000 per annum.   |            |   |   |
| 1 clerk, \$900 per annum.   |            |   |   |
| Total for Bureau of Biological Survey .....   |            | 978,005.00  | 742,170.00  |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

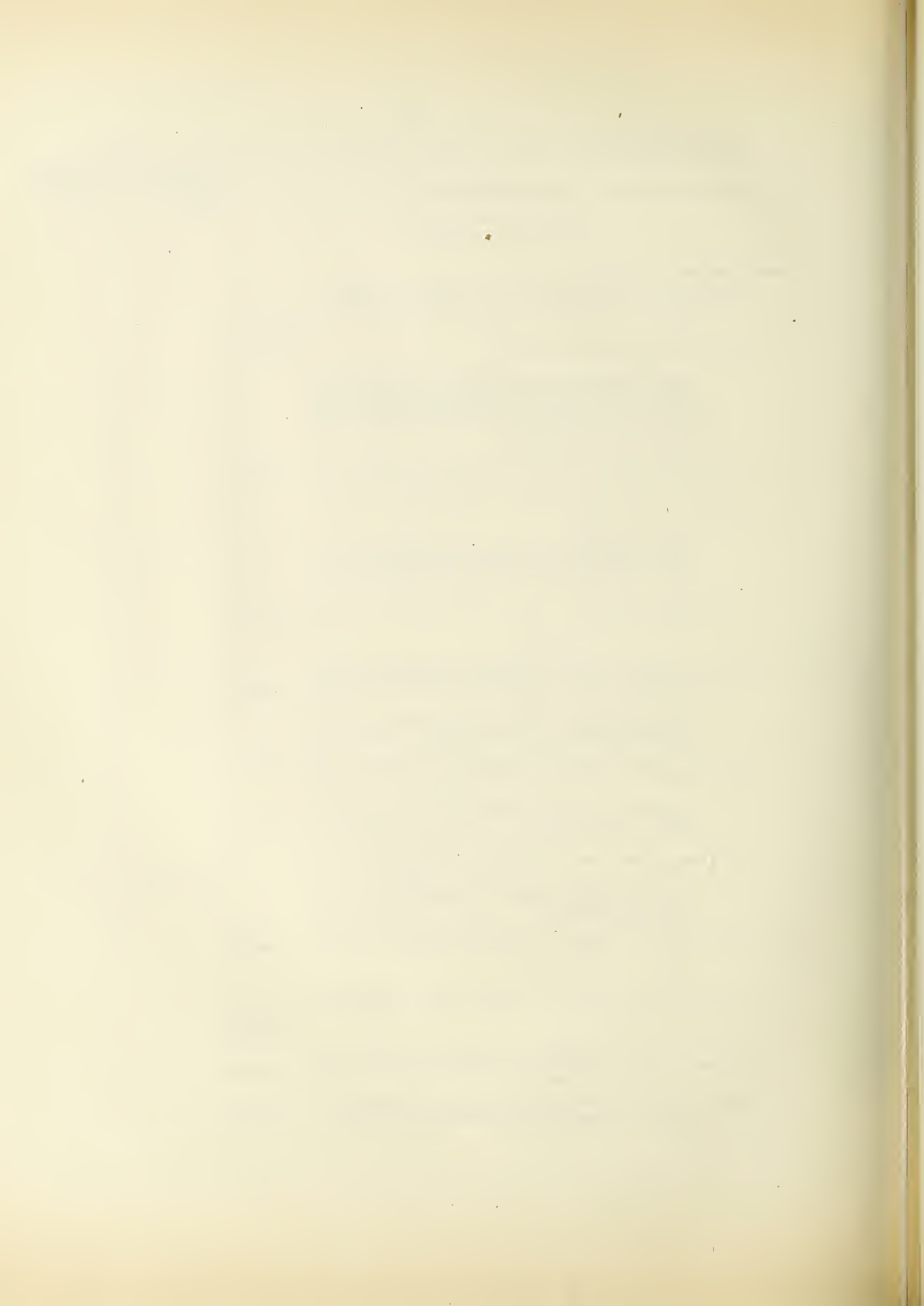
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| DIVISION OF ACCOUNTS AND DISBURSEMENTS.   |   |   |
| Salaries, Division of Accounts and Disbursements—   |   |   |
| (1) One chief of division and disbursing clerk ( <i>R. S., p. 87, secs. 520-523; act July 24, 1919, vol. 41, p. 258, sec. 1</i> ) -----   | \$4, 000. 00  |   |
| (2) One supervising auditor ( <i>same acts</i> ) -----  | 2, 250. 00  |   |
| (3) One cashier and chief clerk ( <i>same acts</i> ) -----  | 2, 250. 00  |   |
| (4) One deputy disbursing clerk ( <i>same acts</i> ) -----  | 2, 000. 00  |   |
| (5) One accountant and bookkeeper ( <i>same acts</i> ) -----  | 2, 000. 00  |   |
| (6) Two clerks, class 4 ( <i>same acts</i> ) -----  | 3, 600. 00  |   |
| (7) Four clerks, class 3 ( <i>same acts</i> ) -----   | 6, 400. 00  |   |
| (8) Six clerks, class 2 ( <i>same acts</i> ) -----  | 8, 400. 00  |   |
| (9) Twelve clerks, class 1 (increase of 5) ( <i>same acts</i> ) -----   | 14, 400. 00   |   |
| NOTE.—The work of the division has increased to a point where additional clerical assistance is greatly needed in order to insure the prompt payment of accounts and the efficient handling of the details in connection therewith. Under existing conditions the capacity of the present force is overtaxed. |   |   |
| (10) Four clerks, at \$1,000 each ( <i>same acts</i> ) -----  | 4, 000. 00  |   |
| (11) One messenger ( <i>same acts</i> ) -----   | 720. 00   |   |
| (12) One messenger boy ( <i>same acts</i> ) -----   | 600. 00   |   |
| Appropriations for 1911..... \$79, 990  | Estimates for 1912..... \$98, 470                                 |   |
| Appropriations for 1912..... 97, 520  | Estimates for 1913..... 104, 620                                  |   |
| Appropriations for 1913..... 104, 620   | Estimates for 1914..... 104, 170                                  |   |
| Appropriations for 1914..... 104, 370   | Estimates for 1915..... 59, 920                                   |   |
| Appropriations for 1915..... 46, 320  | Estimates for 1916..... 44, 920                                   |   |
| Appropriations for 1916..... 44, 920  | Estimates for 1917..... 44, 920                                   |   |
| Appropriations for 1917..... 44, 920  | Estimates for 1918..... 44, 720                                   |   |
| Appropriations for 1918..... 44, 920  | Estimates for 1919..... 44, 920                                   |   |
| Appropriations for 1919..... 44, 920  | Estimates for 1920..... 44, 620                                   |   |
| Appropriations for 1920..... 44, 620  | Estimates for 1921..... 50, 620                                   |   |
| NOTE.—Actual increase, \$6,000, as follows:   |   |   |
| New places.   |   |   |
| 5 clerks, class 1.....  | \$6, 000  |   |
| Total for Division of Accounts and Disbursements -----  | \$50, 620. 00   | \$44, 620. 00   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| DIVISION OF PUBLICATIONS.  |   |   |
| <i>Salaries, Division of Publications—</i>   |   |   |
| (1) One chief of division ( <i>R. S., p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> )-----  | \$3, 500. 00  |   |
| (2) One executive assistant ( <i>submitted</i> )-----  | 2, 500. 00  |   |
| NOTE.—With the enlarged responsibilities of the chief of bureau incident to the consolidation of all the publication and information work under one head, the services of an executive assistant will be necessary in order to relieve the chief of many of the administrative details. It is proposed to have this employee also exercise general supervision over the business operations of the division. |   |   |
| (3) One chief editor ( <i>R. S., p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> )--  | 3, 000. 00  |   |
| (4) <b>One assistant chief of division, \$2,500, changed to 1 assistant editor, \$2,500</b>  |   |   |
| NOTE.—Under the present organization of the work, this employee no longer performs the duties of assistant chief. He is engaged entirely on work of an editorial nature.   |   |   |
| (5) One assistant editor (in lieu of 1 assistant chief of division, \$2,500) ( <i>same acts</i> )-----   | 2, 500. 00  |   |
| NOTE.—See note under item 4.   |   |   |
| (6) One assistant in charge of exhibits (by transfer from statutory roll, Secretary's office, with change of title from 1 expert on exhibits, \$3,000) ( <i>same acts</i> )-----   | 3, 000. 00  |   |
| NOTE.—This employee will have direct supervision of the exhibit work of the department, and the proposed change in designation will indicate more accurately the character of his duties.  |   |   |
| (7) One assistant in charge of information (by transfer from statutory roll, Secretary's office) ( <i>same acts</i> )-----   | 3, 000. 00  |   |
| (8) One assistant in charge of motion-picture activities (by transfer from lump fund for general administration, Forest Service) ( <i>same acts</i> )-----   | 2, 520. 00  |   |
| (9) <b>One superintendent of distribution, \$2,500, changed to 1 assistant in charge of distribution, \$2,500</b>  |   |   |
| NOTE.—This change in designation is recommended in order that the title of the position may conform with those of supervisory officers in other sections of the division.  |   |   |
| (10) One assistant in charge of distribution (in lieu of 1 superintendent of distribution, \$2,500) ( <i>same acts</i> )-----  | 2, 500. 00  |   |
| NOTE.—See note under item 9.   |   |   |
| (11) One assistant in charge of indexing (change of position on roll) ( <i>same acts</i> )-----  | 2, 000. 00  |   |
| (12) One chief clerk ( <i>same acts</i> )-----   | 2, 000. 00  |   |
| (13) One assistant in exhibits (by transfer from statutory roll, Secretary's office) ( <i>same acts</i> )-----   | 2, 000. 00  |   |
| (14) One assistant (by transfer from lump fund for eradication of cattle ticks, Bureau of Animal Industry) ( <i>same acts</i> )-----   | 2, 400. 00  |   |

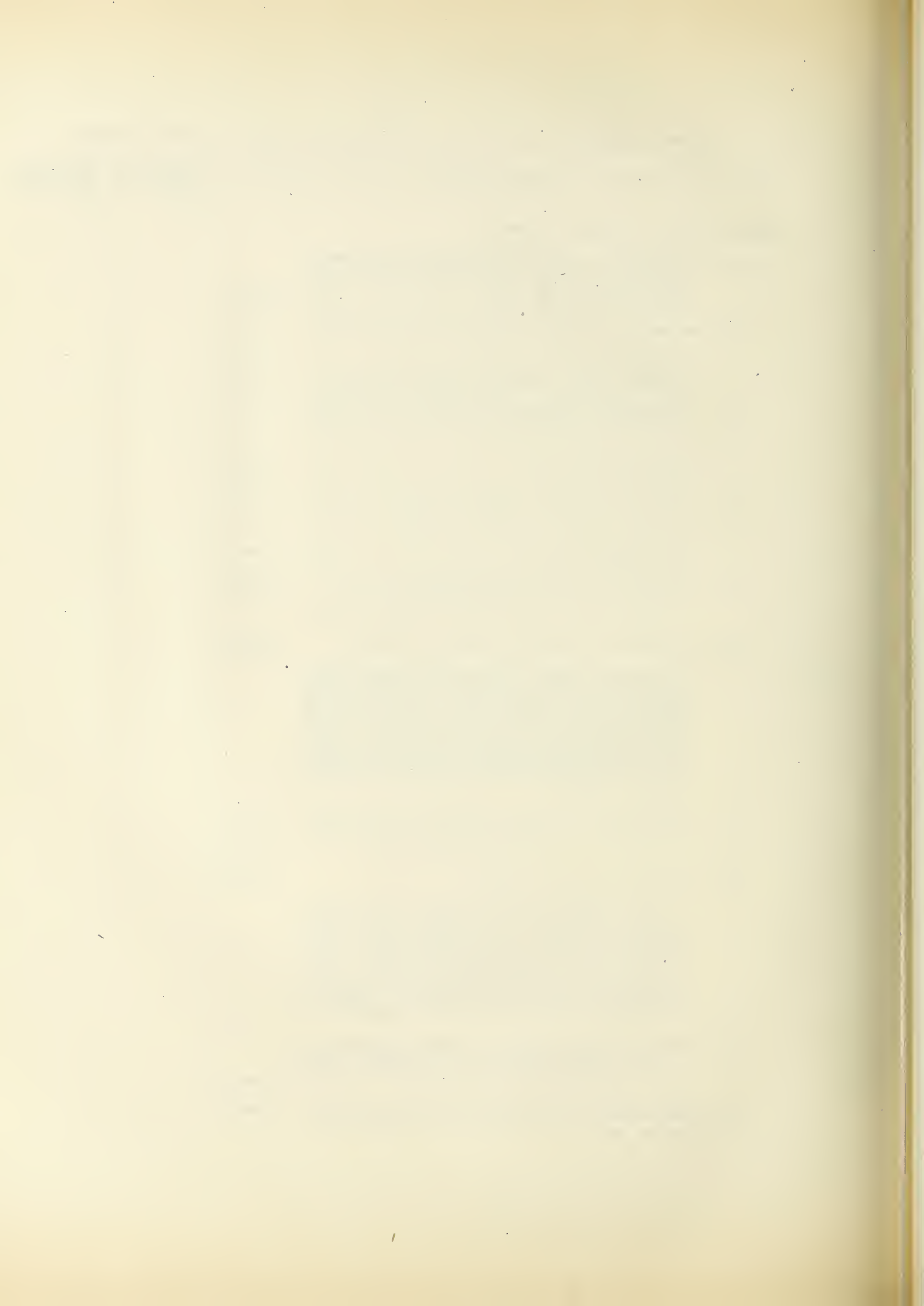




## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

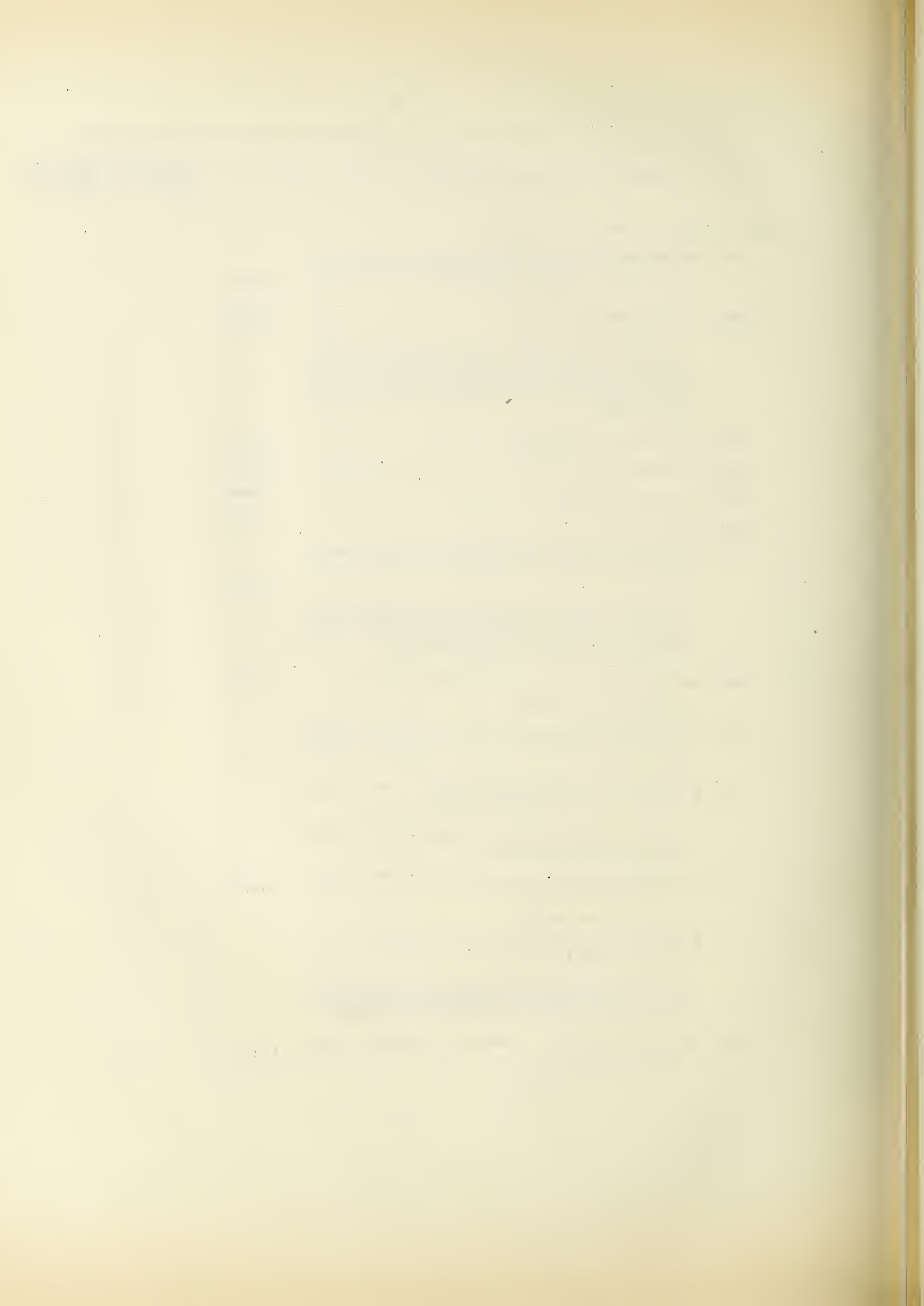
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Division of Publications—Continued.</i>  |   |   |
| (15) One assistant (by transfer from lump fund for eradication of pink bollworm, Federal Horticultural Board) ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1) -----  | \$2,340.00  |   |
| (16) One assistant (by transfer from lump fund for dehydration investigations, Bureau of Chemistry) ( <i>same acts</i> ) -----  | 2,250.00  |   |
| (17) One assistant (by transfer from lump fund for animal husbandry, Bureau of Animal Industry) ( <i>same acts</i> ) -----  | 2,200.00  |   |
| (18) Two assistants, at \$2,000 each (increase of 1 by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----   | 4,000.00  |   |
| (19) One assistant editor (by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----  | 2,000.00  |   |
| (20) Three assistant editors, at \$1,800 each (by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----  | 5,400.00  |   |
| (21) One assistant editor (by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----  | 1,600.00  |   |
| (22) Two assistants, at \$1,400 each (increase of 1 in lieu of 1 assistant in document section, \$1,400) ( <i>same acts</i> ) -----   | 2,800.00  |   |
| NOTE.—This change in title is explained in the note under item 42.  |   |   |
| (23) Two indexers and compilers, at \$1,800 each ( <i>submitted</i> ) -----   | 3,600.00  |   |
| NOTE.—These assistants are badly needed to handle the increased volume of work incident to indexing the numerous publications of the department and especially in maintaining a comprehensive index of the information contained in these publications. The work will entail a revision of the card indexes, which have been accumulating for a number of years without adequate revision, and the adoption of improved methods of handling the indexing and publication correspondence work generally. The additional employees also will assist in preparing indexes for bound volumes of department bulletins, which work is in arrears, and in compiling cumulative indexes for the Yearbooks of the department in series of five years each. |   |   |
| (24) One indexer ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1) --  | 1,400.00  |   |
| (25) One assistant in charge of illustrations ( <i>same acts</i> ) -----  | 2,100.00  |   |
| (26) One artist and designer ( <i>submitted</i> ) -----   | 2,500.00  |   |
| NOTE.—Considerable progress has been made in the past few years in placing the department publications, especially the farmers' bulletins, special leaflets, posters, etc., before the public in more inviting form through the use of attractive covers, appropriately designed with regard to subject matter, well illustrated, and artistically lettered. The services of a well-qualified, experienced artist and designer are needed to handle personally the more difficult pieces of work which require creative ability, involving initiative of thought and a broad knowledge generally, including thorough training in applied art. A man with the requisite qualifications can not be secured for less than \$2,500.                   |   |   |
| (27) One draftsman or photographer (by transfer from lump fund for dairy industry, Bureau of Animal Industry) ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1) -----  | 1,800.00  |   |
| (28) Two draftsmen or photographers, at \$1,600 each ( <i>same acts</i> ) --  | 3,200.00  |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>Salaries, Division of Publications—Continued.</i>   |   |   |
| (29) Two draftsmen or photographers, at \$1,500 each ( <i>R. S. p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> )-----  | \$3,000.00  |   |
| (30) Five draftsmen or photographers, at \$1,400 each (increase of 2) ( <i>same acts</i> )-----  | 7,000.00  |   |
| NOTE.—The illustrating, designing, lettering, and other similar work necessary in connection with the preparation of the bulletins, posters, etc., issued by the department has greatly increased in volume, and at present is in arrears because of the inadequacy of the force to keep it up to date. The services of two additional draftsmen or photographers are urgently needed. |   |   |
| (31) One draftsman or photographer ( <i>same acts</i> )-----   | 1,300.00  |   |
| (32) Ten draftsmen or photographers, at \$1,200 each ( <i>same acts</i> )--  | 12,000.00   |   |
| (33) One assistant photographer ( <i>same acts</i> )-----  | 900.00  |   |
| (34) One lantern-slide colorist ( <i>same acts</i> )-----  | 840.00  |   |
| (35) One laboratory aid (by transfer from statutory roll, Bureau of Chemistry, with change of title from 1 clerk, \$900) ( <i>same acts</i> )-----   | 900.00  |   |
| NOTE.—This place and that under item 36 are occupied by employees performing the duties of laboratory aids. It has been found practically impossible to secure competent clerical assistance at \$900 and \$840, but suitable laboratory aids may be obtained at these salaries. It is therefore recommended that the titles be changed as indicated.                                  |   |   |
| (36) One laboratory aid (in lieu of 1 clerk, \$840) ( <i>same acts</i> )-----  | 840.00  |   |
| NOTE.—See note under item 35.  |   |   |
| (37) One laboratory aid (increase of \$450 to correct typographical error in Agricultural Act for 1920 from \$270 to \$720) ( <i>same acts</i> )-----  | 720.00  |   |
| (38) <b>One assistant in charge of document section, \$2,000, changed to 1 assistant in distribution, \$2,000</b>  |   |   |
| NOTE.—This change in designation is recommended in order to better indicate the duties of the position. The former document section has been merged into the distribution unit.  |   |   |
| (39) One assistant in distribution (in lieu of 1 assistant in charge of document section, \$2,000) ( <i>same acts</i> )-----   | 2,000.00  |   |
| NOTE.—See note under item 38.  |   |   |
| (40) <b>One assistant in document section, \$1,800, changed to 1 assistant, \$1,800</b>  |   |   |
| NOTE.—This change in designation is recommended owing to the fact that the former document section has been merged into the distribution unit. It will also permit greater flexibility in filling vacancies and in assigning employees to work where their services are most needed.   |   |   |
| (41) One assistant (in lieu of 1 assistant in document section, \$1,800) ( <i>same acts</i> )-----   | 1,800.00  |   |
| NOTE.—See note under item 40.  |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Division of Publications—Continued.</i>  |   |   |
| (42) <b>【One assistant in document section, \$1,400, changed to 1 assistant, \$1,400】</b>   |   |   |
| NOTE.—This change in designation is made necessary by the fact that the former document section has been merged into the distribution unit. It will also afford greater latitude in shifting employees from one section to another as the needs of the work require.  |   |   |
| (43) One foreman, miscellaneous distribution (( <i>R. S. p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> )) -----  | \$1, 500. 00  |   |
| (44) One clerk, class 4 (by transfer from statutory roll, Secretary's office, with change of title from 1 assistant editor, \$1,800) ( <i>same acts</i> ) -----   | 1, 800. 00  |   |
| NOTE.—The employee occupying this position has a civil-service status of clerk as well as assistant editor, his principal duties, however, being of an administrative nature. The change in designation recommended will better indicate the character of his work and at the same time afford greater latitude in filling the place should a vacancy occur.  |   |   |
| (45) Four clerks, class 3 (increase of 1 by transfer from lump fund for administrative expenses, Bureau of Entomology, and 2 new places) ( <i>same acts</i> ) -----   | 6, 400. 00  |   |
| NOTE.—One of these new places is requested in order that a capable clerk may be secured to prepare special statements required from time to time in the work of the division, to visit the large volume of correspondence of the division, and to assist in handling special tasks which arise constantly in the administrative office. It is proposed to use the other position for the appointment of a file clerk, to have charge of the mails and files of the publication and information units. The individual offices and sections now maintain separate files. It is planned to centralize them and bring them under a single direction. There are sufficient clerks to handle the routine work connected with a central system, but a capable executive clerk is needed who can coordinate this phase of the work and develop a thoroughly efficient system for its handling. If this recommendation and that in item 46 are approved, it will be possible to drop five clerks at \$840. (See item 50.)  |   |   |
| (46) Nine clerks, class 2 (increase of 7, 4 by transfer from statutory roll, Secretary's office, and 3 new places) ( <i>same acts</i> ) -----   | 12, 600. 00   |   |
| NOTE.—It has been impossible to retain competent stenographers and typewriters at salaries of \$840 and \$900, and 21 of these places were filled by temporary appointees at the time these estimates were prepared. The Civil Service Commission has been unable to supply this division with either stenographers or typists at present rates and for more than a year has authorized the appointment of such employees, pending certification, wherever they may be found. Even under this arrangement, however, stenographers can not be secured. This situation has had the effect of seriously handicapping the work of the Division of Publications. In addition to the ordinary correspondence of the division, which is of very large volume, additional provision should be made for the cutting of mimeograph stencils, which requires skilled typists. In order to place this work on an efficient basis and to secure employees who can be expected to remain, at least three additional places at \$1,400 should be provided. If this recommendation and that in item 45 are approved, it will be possible to drop five clerks at \$840. (See item 50.) |   |   |
| (47) Sixteen clerks, class 1 (increase of 6 by transfers, 4 from statutory roll, Secretary's office, 1 from lump fund for road management, Bureau of Public Roads, and 1 from lump fund for farmers' institutes and agricultural schools, States Relations Service) ( <i>same acts</i> ) -----  | 19, 200. 00   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Division of Publications—Continued.</i>  |   |   |
| (48) Eighteen clerks, at \$1,000 each (increase of 2 by transfer from statutory roll, Secretary's office) ( <i>R. S. p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> ).....  | \$18,000.00   |   |
| (49) Forty clerks, at \$900 each ( <i>same acts</i> ).....  | 36,000.00   |   |
| (50) Fifteen clerks, at \$840 each (decrease of 6, 1 by change to 1 laboratory aid, \$840, and 5 dropped) ( <i>same acts</i> ).....   | 12,600.00   |   |
| NOTE.—The change in designation from clerk to laboratory aid is explained in the note under item 35. If the 2 new places of clerks of class 3 and 3 of class 2 are allowed it will be possible to drop the five positions at \$840. The latter places have been vacant for several months or filled by temporary employees because of inability to secure competent permanent clerks at this low salary. (See items 45 and 46.) |   |   |
| (51) Five machine operators, at \$1,200 each ( <i>same acts</i> ).....  | 6,000.00  |   |
| (52) <b>Five skilled laborers, at \$1,000 each, consolidated with 1 skilled laborer, \$1,000</b>  |   |   |
| NOTE.—These 5 places and the place under item 66 have been consolidated in order to bring under one item all the \$1,000 skilled laborers.  |   |   |
| (53) <b>Two skilled laborers, at \$900 each, changed to 2 messengers or laborers, at \$900 each</b>   |   |   |
| NOTE.—This change in designation and those under items 54, 55, 57, 58, 59, 60, 61, 62, 67, 73, and 74 are recommended in order that the class of labor best suited to the needs of the division may be engaged as vacancies occur.  |   |   |
| (54) <b>Seven skilled laborers, at \$840 each, changed to 7 messengers or laborers, at \$840 each</b>   |   |   |
| NOTE.—See note under item 53.   |   |   |
| (55) <b>Four skilled laborers, at \$780 each, changed to 4 messengers or laborers, at \$780 each</b>  |   |   |
| NOTE.—See note under item 53.   |   |   |
| (56) One chief folder ( <i>same acts</i> ).....   | 1,200.00  |   |
| (57) Three messengers or laborers, at \$900 each (increase of 2 in lieu of 2 skilled laborers, at \$900 each) ( <i>same acts</i> ).....   | 2,700.00  |   |
| NOTE.—See note under item 53.   |   |   |
| (58) Ten messengers or laborers, at \$840 each (in lieu of 7 skilled laborers, at \$840 each, 1 laborer, \$840, and 2 messengers, at \$840 each) ( <i>same acts</i> ).....  | 8,400.00  |   |
| NOTE.—See note under item 53.   |   |   |
| (59) Four messengers or laborers, at \$780 each (in lieu of 4 skilled laborers, at \$780 each) ( <i>same acts</i> ).....  | 3,120.00  |   |
| NOTE.—See note under item 53.   |   |   |
| (60) Fourteen messengers or laborers, at \$720 each (increase of 1 in lieu of 1 skilled laborer, \$720) ( <i>same acts</i> ).....   | 10,080.00   |   |
| NOTE.—See note under item 53.   |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>Salaries, Division of Publications—Continued.</i>   |   |   |
| (61) <b>One skilled laborer, \$720, changed to 1 messenger or laborer, \$720</b><br>NOTE.—See note under item 53.  |   |   |
| (62) Three messengers or laborers, at \$600 each (2 in lieu of 2 laborers, at \$600 each, and 1 by transfer of 1 laborer, \$600, from statutory roll, Secretary's office) ( <i>R. S. p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; July 24, 1919, vol. 41, p. 258, sec. 1</i> ) -----  | \$1,800.00  |   |
| NOTE.—See note under item 53.  |   |   |
| (63) One folder ( <i>same acts</i> ) -----   | 1,000.00  |   |
| (64) Two folders, at \$900 each ( <i>same acts</i> ) -----   | 1,800.00  |   |
| (65) Two skilled laborers, at \$1,100 each ( <i>same acts</i> ) -----  | 2,200.00  |   |
| (66) Six skilled laborers, at \$1,000 each (increase of 5 by consolidation of places) ( <i>same acts</i> ) -----   | 6,000.00  |   |
| NOTE.—See note under item 52.  |   |   |
| (67) <b>Two messengers, at \$840 each, changed to 2 messengers or laborers, at \$840 each</b><br>NOTE.—See note under item 53.   |   |   |
| (68) Seven messenger boys, at \$720 each ( <i>same acts</i> ) -----  | 5,040.00  |   |
| (69) Four messenger boys, at \$600 each (increase of 1 by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----   | 2,400.00  |   |
| (70) Four messenger boys, at \$480 each (increase of 2 by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) -----   | 1,920.00  |   |
| (71) Two messenger boys, at \$420 each ( <i>same acts</i> ) -----  | 840.00  |   |
| (72) Two messenger boys, at \$360 each ( <i>same acts</i> ) -----  | 720.00  |   |
| (73) <b>One laborer, \$840, changed to 1 messenger or laborer, \$840</b><br>NOTE.—See note under item 53.  |   |   |
| (74) <b>Two laborers, at \$600 each, changed to 2 messengers or laborers, at \$600 each</b><br>NOTE.—See note under item 53.   |   |   |
| (75) Three charwomen, at \$480 each ( <i>same acts</i> ) -----   | 1,440.00  |   |
| (76) Four charwomen, at \$240 each (increase of 1 by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> ) --  | 960.00  |   |
|  | \$265,130.00  | \$196,070.00  |
| Appropriations for 1911..... \$172,730    Estimates for 1912..... \$177,510<br>Appropriations for 1912..... 179,960    Estimates for 1913..... 181,110<br>Appropriations for 1913..... 194,700    Estimates for 1914..... 165,810<br>Appropriations for 1914..... 166,410    Estimates for 1915..... 171,090<br>Appropriations for 1915..... 170,750    Estimates for 1916..... 174,750<br>Appropriations for 1916..... 174,750    Estimates for 1917..... 175,830<br>Appropriations for 1917..... 177,400    Estimates for 1918..... 184,160<br>Appropriations for 1918..... 181,920    Estimates for 1919..... 178,920<br>Appropriations for 1919..... 178,920    Estimates for 1920..... 179,120<br>Appropriations for 1920..... 196,070    Estimates for 1921..... 265,130 |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.                              | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>Salaries, Division of Publications—Continued.</i>   |   |   |
| NOTE.—Apparent increase, \$69,060; actual increase, \$69,060, follows:   |   |   |
| <i>New places.</i>   |   |   |
| 1 executive assistant.....   | \$2,500   |   |
| 2 indexers and compilers, at \$1,800 each.....   | 3,600   |   |
| 1 artist and designer.....   | 2,500   |   |
| 2 draftsmen or photographers, at \$1,400 each...   | 2,800   |   |
| 2 clerks, class 3.....   | 3,200   |   |
| 3 clerks, class 2.....   | 4,200   |   |
|  | <hr/> 18,800  |   |
| <i>Increase in position to correct typographical error.</i>  |   |   |
| 1 laboratory aid, from \$270 to \$720, to correct error in 1920 agricultural act.....  | 450   |   |
|  | <hr/> \$19,250  |   |
| <i>Places dropped.</i>   |   |   |
| 5 clerks, at \$840 each.....   | 4,200   |   |
|  | <hr/> \$15,050  |   |
| <i>Transfers from funds of other bureaus, which funds have been correspondingly reduced.</i>   |   |   |
| 1 assistant in charge of exhibits, from statutory roll, Secretary's office, with change of title.....  | 3,000   |   |
| 1 assistant in charge of information, from statutory roll, Secretary's office.....   | 3,000   |   |
| 1 assistant in charge of motion-picture activities, from general administration, Forest Service.....   | 2,520   |   |
| 1 assistant in exhibits, from statutory roll, Secretary's office.....  | 2,000   |   |
| 1 assistant, from eradication of cattle ticks, Bureau of Animal Industry.....  | 2,400   |   |
| 1 assistant, from eradication of pink bollworm, Federal Horticultural Board.....   | 2,340   |   |
| 1 assistant, from dehydration investigations, Bureau of Chemistry.....   | 2,250   |   |
| 1 assistant, from animal husbandry, Bureau of Animal Industry.....   | 2,200   |   |
| 1 assistant, from statutory roll, Secretary's office.....  | 2,000   |   |
| 1 assistant editor, from statutory roll, Secretary's office.....   | 2,000   |   |
| 3 assistant editors, at \$1,800 each, from statutory roll, Secretary's office.....   | 5,400   |   |
| 1 assistant editor, from statutory roll, Secretary's office.....   | 1,600   |   |
| 1 draftsman or photographer, from dairy industry, Bureau of Animal Industry.....   | 1,800   |   |
| 1 laboratory aid, from statutory roll, Bureau of Chemistry, with change of title.....  | 900   |   |
| 1 clerk, class 4, from statutory roll, Secretary's office, with change of title.....   | 1,800   |   |
| 1 clerk, class 3, from administrative expenses, Bureau of Entomology.....  | 1,600   |   |
| 4 clerks, class 2, from statutory roll, Secretary's office..   | 5,600   |   |
| 6 clerks, class 1, 4 from statutory roll, Secretary's office; 1 from road management, Bureau of Public Roads; and 1 from farmers' institutes and agricultural schools, States Relations Service..... | 7,200   |   |
| 2 clerks, at \$1,000 each, from statutory roll, Secretary's office.....  | 2,000   |   |
| 1 messenger or laborer, from statutory roll, Secretary's office, with change of title.....   | 600   |   |
| 1 messenger boy from statutory roll, Secretary's office..  | 600   |   |
| 2 messenger boys, at \$480 each, from statutory roll, Secretary's office.....  | 960   |   |
| 1 charwoman, from extra labor, Secretary's office.....   | 240   |   |
|  | <hr/> 54,010  |   |
| Actual increase.....   | 69,060  |   |
| <i>Change of title.</i>  |   |   |
| 1 assistant chief of division, \$2,500, changed to 1 assistant editor, \$2,500.  |   |   |
| 1 expert on exhibits, \$3,000, changed to 1 assistant in charge of exhibits, \$3,000.  |   |   |
| 1 superintendent of distribution, \$2,500, changed to 1 assistant in charge of distribution, \$2,500.  |   |   |
| 1 assistant in charge of document section, \$2,000, changed to 1 assistant in distribution, \$2,000.   |   |   |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

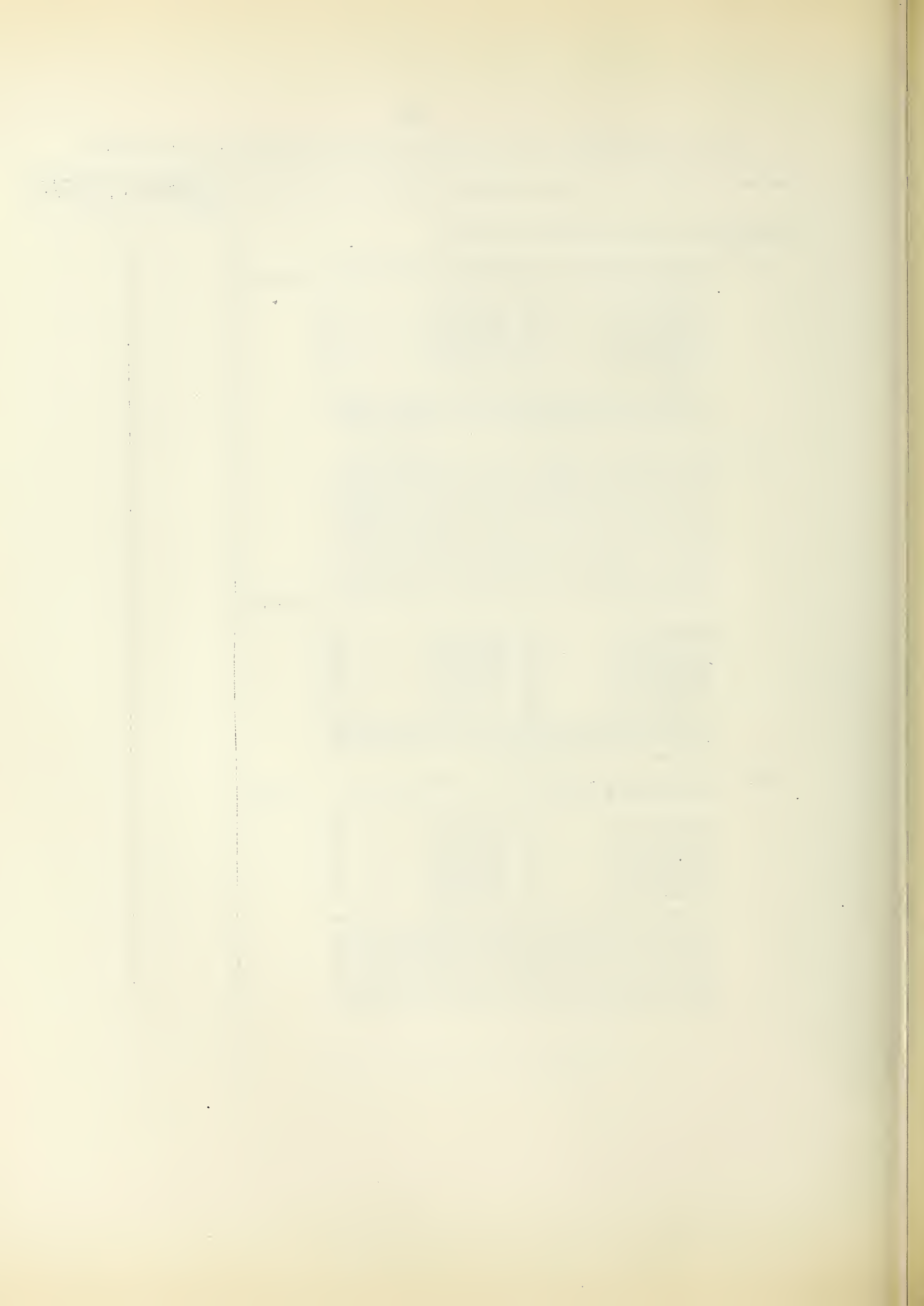
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>Salaries, Division of Publications—Continued.</i>   |   |   |
| 1 assistant in document section, \$1,800, changed to 1 assistant, \$1,800.   |   |   |
| 1 assistant in document section, \$1,400, changed to 1 assistant, \$1,400.   |   |   |
| 1 assistant editor, \$1,800, changed to 1 clerk, class 4.  |   |   |
| 1 clerk, \$840, changed to 1 laboratory aid, \$840.  |   |   |
| 2 skilled laborers, at \$900 each, changed to 2 messengers or laborers, at \$900 each.   |   |   |
| 7 skilled laborers, at \$840 each, changed to 7 messengers or laborers, at \$840 each.   |   |   |
| 4 skilled laborers, at \$780 each, changed to 4 messengers or laborers, at \$780 each.   |   |   |
| 1 skilled laborer, \$720, changed to 1 messenger or laborer, \$720.  |   |   |
| 2 messengers, at \$840 each, changed to 2 messengers or laborers, at \$840 each.   |   |   |
| 1 laborer, \$840, changed to 1 messenger or laborer, \$840.  |   |   |
| 2 laborers, at \$600 each, changed to 2 messengers or laborers, at \$600 each.   |   |   |
| <i>General Expenses, Division of Publications—</i>   |   |   |
| (77) For miscellaneous objects of expenditure in connection with the publication, indexing, illustration, and distribution of bulletins, documents, and reports, <i>and information and exhibit work</i> , as follows ( <i>act July 24, 1919, vol. 41, p. 259, sec. 1</i> ):   |   |   |
| NOTE.—The words “and information and exhibit work” are added in order to provide specific authority for the work of the Office of Information, Office of Exhibits, and the motion-picture activities, which it is proposed to consolidate with the Division of Publications under a reorganized information and publication service. The activities mentioned have heretofore been carried on as units of the Office of the Secretary under the direct supervision of one of the Assistant Secretaries.  |   |   |
| (78) For labor-saving machinery, including necessary supplies <b>[\$5,000]</b> ( <i>same acts</i> )  | \$6,000.00  |   |
| Appropriation for 1911.....\$3,000   | Estimate for 1912.....\$3,000                                     |   |
| Appropriation for 1912.....3,000   | Estimate for 1913.....3,100                                       |   |
| Appropriation for 1913.....3,000   | Estimate for 1914.....1,500                                       |   |
| Appropriation for 1914.....2,000   | Estimate for 1915.....2,000                                       |   |
| Appropriation for 1915.....2,000   | Estimate for 1916.....2,000                                       |   |
| Appropriation for 1916.....2,000   | Estimate for 1917.....3,000                                       |   |
| Appropriation for 1917.....3,000   | Estimate for 1918.....3,500                                       |   |
| Appropriation for 1918.....3,500   | Estimate for 1919.....3,500                                       |   |
| Appropriation for 1919.....3,500   | Estimate for 1920.....5,000                                       |   |
| Appropriation for 1920.....5,000   | Estimate for 1921.....6,000                                       |   |
| NOTE.—An increase of \$1,000 in this item is requested for the purchase of additional equipment and supplies necessitated by the centralization in this division of the duplicating and automatic addressing work of the department as a whole and the consequent increase in such work by the Division of Publications.   |   |   |
| (79) For envelopes, stationery, and materials <b>[\$7,500]</b> ( <i>same acts</i> )  | 9,000.00  |   |
| Appropriation for 1911.....\$11,500  | Estimate for 1912.....\$11,500                                    |   |
| Appropriation for 1912.....11,500  | Estimate for 1913.....11,500                                      |   |
| Appropriation for 1913.....11,500  | Estimate for 1914.....6,000                                       |   |
| Appropriation for 1914.....6,000   | Estimate for 1915.....6,000                                       |   |
| Appropriation for 1915.....6,000   | Estimate for 1916.....6,000                                       |   |
| Appropriation for 1916.....6,000   | Estimate for 1917.....6,500                                       |   |
| Appropriation for 1917.....6,500   | Estimate for 1918.....6,500                                       |   |
| Appropriation for 1918.....6,500   | Estimate for 1919.....7,500                                       |   |
| Appropriation for 1919.....7,500   | Estimate for 1920.....7,500                                       |   |
| Appropriation for 1920.....7,500   | Estimate for 1921.....9,000                                       |   |
| NOTE.—There is an increase in the above item of \$1,500. This merely provides for the transfer of that amount from the appropriation for “Miscellaneous Expenses,” which fund has been correspondingly reduced. It represents the amount that has been allotted from this appropriation to the Office of Information during the fiscal year 1920 for the purchase of paper and envelopes. With the merging of this office with the Division of Publications, it will simplify the accounting and add to the convenience of administering the expenditures to have this transfer of funds made. |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>General Expenses, Division of Publications—Continued.</i>   |   |   |
| (80) For office furniture and fixtures <b>[\$1,320]</b> ( <i>act July 24, 1919, vol. 41, p. 259, sec. 1</i> ).....   | \$1, 600. 00  |   |
| Appropriation for 1911.....\$1,000   | Estimate for 1912.....\$1,000                                     |   |
| Appropriation for 1912.....1,000   | Estimate for 1913.....1,000                                       |   |
| Appropriation for 1913.....1,000   | Estimate for 1914.....1,000                                       |   |
| Appropriation for 1914.....1,000   | Estimate for 1915.....1,000                                       |   |
| Appropriation for 1915.....1,000   | Estimate for 1916.....1,000                                       |   |
| Appropriation for 1916.....1,000   | Estimate for 1917.....1,000                                       |   |
| Appropriation for 1917.....1,000   | Estimate for 1918.....1,320                                       |   |
| Appropriation for 1918.....1,320   | Estimate for 1919.....1,320                                       |   |
| Appropriation for 1919.....1,320   | Estimate for 1920.....1,320                                       |   |
| Appropriation for 1920.....1,320   | Estimate for 1921.....1,600                                       |   |
| NOTE.—The increase of \$280 recommended in the above item will cover additional office furniture and fixtures required in connection with the consolidation of the Office of Information, the Office of Exhibits, and the motion-picture activities with the Division of Publications.   |   |   |
| (81) For photographic equipment and for photographic materials and artists' tools and supplies, \$22,000: <i>Provided, That hereafter the Secretary of Agriculture is authorized, under such rules and regulations and subject to such conditions as he may prescribe, to loan, rent, or sell copies of films: Provided, That in the sale or rental of films educational institutions or associations for agricultural education not organized for profit shall have preference; all moneys received from such rentals or sales to be covered into the Treasury of the United States as miscellaneous receipts (same acts)</i> ..... | 22, 000. 00   |   |
| Appropriation for 1911.....\$4,000   | Estimate for 1912.....\$5,000                                     |   |
| Appropriation for 1912.....5,000   | Estimate for 1913.....5,000                                       |   |
| Appropriation for 1913.....5,000   | Estimate for 1914.....6,000                                       |   |
| Appropriation for 1914.....6,000   | Estimate for 1915.....6,000                                       |   |
| Appropriation for 1915.....6,000   | Estimate for 1916.....6,000                                       |   |
| Appropriation for 1916.....6,000   | Estimate for 1917.....6,000                                       |   |
| Appropriation for 1917.....6,000   | Estimate for 1918.....25,000                                      |   |
| Appropriation for 1918.....17,000  | Estimate for 1919.....17,000                                      |   |
| Appropriation for 1919.....17,000  | Estimate for 1920.....22,000                                      |   |
| Appropriation for 1920.....22,000  | Estimate for 1921.....22,000                                      |   |
| NOTE.—It is proposed to insert the word "hereafter" in the proviso authorizing the Secretary of Agriculture to loan, rent, or sell photographic films, so as to make this legislation permanent and avoid the necessity for repeating the proviso year after year.   |   |   |
| (82) For telephone and telegraph service and freight and express charges <b>[\$750]</b> ( <i>same acts</i> ).....  | 900. 00   |   |
| Appropriation for 1911.....\$500   | Estimate for 1912.....\$500                                       |   |
| Appropriation for 1912.....500   | Estimate for 1913.....500   |   |
| Appropriation for 1913.....500   | Estimate for 1914.....250   |   |
| Appropriation for 1914.....250   | Estimate for 1915.....250   |   |
| Appropriation for 1915.....250   | Estimate for 1916.....250   |   |
| Appropriation for 1916.....250   | Estimate for 1917.....250   |   |
| Appropriation for 1917.....250   | Estimate for 1918.....250   |   |
| Appropriation for 1918.....250   | Estimate for 1919.....500   |   |
| Appropriation for 1919.....500   | Estimate for 1920.....750   |   |
| Appropriation for 1920.....750   | Estimate for 1921.....900   |   |
| NOTE.—There is an increase in the above item of \$150. A part of this amount will be required to provide for telephone service for the Office of Information and the office having charge of motion-picture activities which will be consolidated with the Division of Publications under the plan of reorganization. This expense heretofore has been met from the appropriation "Miscellaneous Expenses." Additional funds also are needed to cover transportation charges on motion-picture films in consequence of the increased demand for the exhibition of motion pictures, lantern slides, etc.                              |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>General Expenses, Division of Publications—Continued.</i>   |   |   |
| (83) For wagons, motor trucks, bicycles, horses, harness, and maintenance of the same ( <i>act July 24, 1919, vol. 41, p. 259, sec. 1</i> ).....   | \$1,000.00  |   |
| Appropriation for 1911..... \$1,000  | Estimate for 1912..... \$1,000                                    |   |
| Appropriation for 1912..... 1,000  | Estimate for 1913..... 1,000                                      |   |
| Appropriation for 1913..... 1,000  | Estimate for 1914..... 500  |   |
| Appropriation for 1914..... 500  | Estimate for 1915..... 500  |   |
| Appropriation for 1915..... 500  | Estimate for 1916..... 500  |   |
| Appropriation for 1916..... 500  | Estimate for 1917..... 500  |   |
| Appropriation for 1917..... 500  | Estimate for 1918..... 500  |   |
| Appropriation for 1918..... 500  | Estimate for 1919..... 500  |   |
| Appropriation for 1919..... 500  | Estimate for 1920..... 1,000                                      |   |
| Appropriation for 1920..... 1,000  | Estimate for 1921..... 1,000                                      |   |
| (84) For purchase of manuscripts, traveling expenses, electro-types, illustrations, and other expenses not otherwise provided for <b>["\$4,000"]</b> ( <i>same acts</i> ).....   | 4,350.00  |   |
| Appropriation for 1911..... \$3,000  | Estimate for 1912..... \$3,000                                    |   |
| Appropriation for 1912..... 3,000  | Estimate for 1913..... 3,000                                      |   |
| Appropriation for 1913..... 3,000  | Estimate for 1914..... 3,000                                      |   |
| Appropriation for 1914..... 3,000  | Estimate for 1915..... 3,000                                      |   |
| Appropriation for 1915..... 3,000  | Estimate for 1916..... 3,000                                      |   |
| Appropriation for 1916..... 3,000  | Estimate for 1917..... 3,000                                      |   |
| Appropriation for 1917..... 3,000  | Estimate for 1918..... 3,000                                      |   |
| Appropriation for 1918..... 3,000  | Estimate for 1919..... 3,000                                      |   |
| Appropriation for 1919..... 3,000  | Estimate for 1920..... 4,000                                      |   |
| Appropriation for 1920..... 4,000  | Estimate for 1921..... 4,350                                      |   |
| NOTE.—There is an increase in this item of \$350, which amount is necessary to provide for miscellaneous expenses of the Office of Information heretofore paid from the appropriation "Miscellaneous Expenses" and to meet the general advance in the cost of all items coming within the scope of this appropriation.   |   |   |
| (85) To enable the Secretary of Agriculture to make suitable agricultural exhibits at State, interstate, and international fairs held within the United States <b>["including the National Dairy Show to be held at Chicago, Illinois, during the fiscal year ending June 30, 1920, \$100,000: Provided, That not more than \$25,000 shall be used in connection with the National Dairy Show to be held at Chicago, Illinois, and that not more than \$5,000 shall be used in connection with any other one fair"]</b> , <i>including rent and employment of persons and means in the District of Columbia and elsewhere (act July 24, 1919, vol. 41, p. 271, sec. 1)</i> ... | 50,000.00   |   |
| NOTE.—This item has been transferred from the "Miscellaneous" section of the bill. The appropriation has been decreased from \$100,000 to \$50,000, as it is believed that the latter amount will be sufficient for all exhibits contemplated by the department during the next fiscal year. The exhibit work is a valuable means of bringing the latest developments in agriculture directly to the public, and many thousands of people are reached in this way who would not otherwise come in touch with the results of the department's work.   |   |   |
| The clause regarding the National Dairy Show at Chicago, Illinois, has been omitted, as this has reference to the show which took place during the fiscal year 1920. The provision fixing at \$5,000 the maximum expenditure that may be incurred in connection with any one fair also has been omitted, so as to leave the apportionment of funds discretionary with the department, to be determined by the requirements in each case. A provision has been inserted authorizing the payment of rent and the employment of labor in the District of Columbia, as the exhibit work has been greatly handicapped in the past by the lack of such authority.                    |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |           | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|-----------|---|---|
| General Expenses, Division of Publications—Continued.  |           |   |   |
| (86) For extra labor and emergency employments in the District of Columbia (act July 24, 1919, vol. 41, p. 259, sec. 1)-----   |           | \$2, 500. 00  |   |
| Appropriation for 1919.....  | \$2, 500  | Estimate for 1919.....  | \$2, 500  |
| Appropriation for 1920.....  | 2, 500    | Estimate for 1920.....  | 2, 500  |
|  |           | Estimate for 1921.....  | 2, 500  |
| In all, for general expenses-----  |           | \$97, 350. 00   | \$44, 070. 00   |
| Appropriation for 1911.....  | \$30, 000 | Estimate for 1912.....  | \$30, 000   |
| Appropriation for 1912.....  | 30, 000   | Estimate for 1913.....  | 25, 000   |
| Appropriation for 1913.....  | 25, 000   | Estimate for 1914.....  | 18, 250   |
| Appropriation for 1914.....  | 18, 250   | Estimate for 1915.....  | 18, 750   |
| Appropriation for 1915.....  | 18, 750   | Estimate for 1916.....  | 18, 750   |
| Appropriation for 1916.....  | 18, 750   | Estimate for 1917.....  | 20, 250   |
| Appropriation for 1917.....  | 20, 250   | Estimate for 1918.....  | 40, 870   |
| Appropriation for 1918.....  | 32, 070   | Estimate for 1919.....  | 35, 820   |
| Appropriation for 1919.....  | 35, 820   | Estimate for 1920.....  | 44, 070   |
| Appropriation for 1920.....  | 44, 070   | Estimate for 1921.....  | 97, 350   |
| NOTE.—As the objects of the appropriations are so clearly defined in the items above for general expenses, the classification of expenditures called for by section 10 of the sundry civil act of August 1, 1914, is deemed unnecessary.   |           |   |   |
| (87) Hereafter employees of the Division of Publications may be detailed by the Secretary of Agriculture for publication, information, and related work in any of the bureaus or offices of the Department, for duty in or out of the District of Columbia, and employees of the bureaus and offices may also be detailed to the Division of Publications for duty in or out of the District of Columbia, traveling expenses of employees so detailed, when necessary, to be paid from the appropriation of the bureau or office in connection with which such travel is performed.  |           |   |   |
| NOTE.—The above provision is recommended in order that the varying, seasonal needs of the service may be met without intermittent employment of inexperienced, untrained assistance. The units engaged in publication and information work are service organizations, not engaged in subject matter peculiar to themselves, but acting as a clearing house for disseminating to the people the information and results achieved by the scientific investigators in the various bureaus of the Department, through the Department bulletins, etc., the agricultural press, motion pictures, and exhibits at the principal fairs of the country. In addition, the machine duplicating (mimeographing, multigraphing, etc.) and the mailing-list work of the department is being centralized as far as practicable in the Division of Publications, and illustrating and designing is performed by this division for the department as a whole. All this work fluctuates in volume according to the requirements of the bureaus concerned. In order that it may be handled in an efficient manner, therefore, with due regard for economy, it is essential that authority be given to meet these conditions as they arise by the detail of competent employees from other branches of the Department as needed. |           |   |   |
| With the inclusion of the exhibits work under the Division of Publications it is especially essential that authority to detail be granted. At present this work is conducted as an activity of the Office of the Secretary, and temporary details of scientific and technical men to accompany exhibits, make demonstrations, etc., can be made as necessary, under existing authority affecting details to and from the Office of the Secretary, which has proved very advantageous to the exhibit work as a whole. It is necessary that such employees accompany the exhibits in order that they may be effectively presented.   |           |   |   |
| Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).   |           |   |   |
| GENERAL EXPENSES—DIVISION OF PUBLICATIONS.   |           |   |   |
| 1 clerk, \$1,200 per annum.  |           |   |   |
| 1 clerk, \$1,000 per annum.  |           |   |   |
| 5 clerks, at \$900 each per annum.   |           |   |   |
| Total for Division of Publications-----  |           | 362, 480. 00  | 240, 140. 00  |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|---|---|---|------------------------------|------------|-------------------------|------------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|------------------------------|----------|-------------------------|----------|
| BUREAU OF CROP ESTIMATES.   |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Salaries, Bureau of Crop Estimates—   |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (1) One statistician, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; act July 24, 1919, vol. 41, p. 259, sec. 1</i> )-----  | \$4, 000. 00  |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (2) One chief clerk ( <i>same acts</i> )-----   | 1, 800. 00  |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (3) Nine clerks, class 4 (increase of 3) ( <i>same acts</i> )-----  | 16, 200. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—These new places and those recommended under items 4, 5, and 7 are absolutely necessary to enable the bureau to handle the greatly augmented volume of crop reporting and statistical research work brought about by the increased use of statistics during the war. The limited clerical force and the prevailing low scale of salaries have seriously handicapped the bureau's efforts, and the burden of work is now greater than the present force can handle. Many of the better trained clerks have resigned to accept higher salaries elsewhere. The institution of new projects and the expansion of existing ones will also demand the employment of a larger clerical force.  |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (4) Nineteen clerks, class 3 (increase of 10) ( <i>same acts</i> )-----   | 30, 400. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—See note under item 3.  |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (5) Twenty-five clerks, class 2 (increase of 10) ( <i>same acts</i> )-----  | 35, 000. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—See note under item 3.  |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (6) One clerk ( <i>same acts</i> )-----   | 1, 300. 00  |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (7) Thirty-three clerks, class 1 (increase of 9) ( <i>same acts</i> )-----  | 39, 600. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| NOTE.—See note under item 3.  |   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (8) Nineteen clerks, at \$1,000 each ( <i>same acts</i> )-----  | 19, 000. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (9) Twenty-four clerks, at \$900 each ( <i>same acts</i> )-----   | 21, 600. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (10) One messenger ( <i>same acts</i> )-----  | 840. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (11) Three messengers or laborers, at \$720 each ( <i>same acts</i> )-----  | 2, 160. 00  |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (12) Three messenger boys, at \$660 each ( <i>same acts</i> )-----  | 1, 980. 00  |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (13) One messenger boy ( <i>same acts</i> )-----  | 480. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (14) One charwoman ( <i>same acts</i> )-----  | 540. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (15) One charwoman ( <i>same acts</i> )-----  | 360. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| (16) Two charwomen, at \$240 each (by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> )-----  | 480. 00   |   |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
|   | \$175,740. 00   | \$129, 060. 00  |                              |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| <table><tr><td>Appropriations for 1911.....</td><td>\$104, 700</td><td>Estimates for 1912.....</td><td>\$109, 670</td></tr><tr><td>Appropriations for 1912.....</td><td>108, 720</td><td>Estimates for 1913.....</td><td>111, 720</td></tr><tr><td>Appropriations for 1913.....</td><td>112, 380</td><td>Estimates for 1914.....</td><td>115, 880</td></tr><tr><td>Appropriations for 1914.....</td><td>115, 380</td><td>Estimates for 1915.....</td><td>114, 180</td></tr><tr><td>Appropriations for 1915.....</td><td>115, 580</td><td>Estimates for 1916.....</td><td>116, 780</td></tr><tr><td>Appropriations for 1916.....</td><td>116, 780</td><td>Estimates for 1917.....</td><td>122, 880</td></tr><tr><td>Appropriations for 1917.....</td><td>122, 880</td><td>Estimates for 1918.....</td><td>130, 340</td></tr><tr><td>Appropriations for 1918.....</td><td>122, 880</td><td>Estimates for 1919.....</td><td>130, 440</td></tr><tr><td>Appropriations for 1919.....</td><td>130, 440</td><td>Estimates for 1920.....</td><td>130, 080</td></tr><tr><td>Appropriations for 1920.....</td><td>129, 060</td><td>Estimates for 1921.....</td><td>175, 740</td></tr></table> |   |   | Appropriations for 1911..... | \$104, 700 | Estimates for 1912..... | \$109, 670 | Appropriations for 1912..... | 108, 720 | Estimates for 1913..... | 111, 720 | Appropriations for 1913..... | 112, 380 | Estimates for 1914..... | 115, 880 | Appropriations for 1914..... | 115, 380 | Estimates for 1915..... | 114, 180 | Appropriations for 1915..... | 115, 580 | Estimates for 1916..... | 116, 780 | Appropriations for 1916..... | 116, 780 | Estimates for 1917..... | 122, 880 | Appropriations for 1917..... | 122, 880 | Estimates for 1918..... | 130, 340 | Appropriations for 1918..... | 122, 880 | Estimates for 1919..... | 130, 440 | Appropriations for 1919..... | 130, 440 | Estimates for 1920..... | 130, 080 | Appropriations for 1920..... | 129, 060 | Estimates for 1921..... | 175, 740 |
| Appropriations for 1911.....  | \$104, 700  | Estimates for 1912.....                                       | \$109, 670                   |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1912.....  | 108, 720  | Estimates for 1913.....                                       | 111, 720                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1913.....  | 112, 380  | Estimates for 1914.....                                       | 115, 880                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1914.....  | 115, 380  | Estimates for 1915.....                                       | 114, 180                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1915.....  | 115, 580  | Estimates for 1916.....                                       | 116, 780                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1916.....  | 116, 780  | Estimates for 1917.....                                       | 122, 880                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1917.....  | 122, 880  | Estimates for 1918.....                                       | 130, 340                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1918.....  | 122, 880  | Estimates for 1919.....                                       | 130, 440                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1919.....  | 130, 440  | Estimates for 1920.....                                       | 130, 080                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |
| Appropriations for 1920.....  | 129, 060  | Estimates for 1921.....                                       | 175, 740                     |            |                         |            |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |                              |          |                         |          |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
|---|---|---|------------------------|------------------------|-----------------------------|---------|-------------------------|---------|-----------------------------|-------------------------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|--------------|--------------------------|--------------------------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|--|--|
| <p><i>Salaries, Bureau of Crop Estimates—Continued.</i></p> <p>NOTE.—Apparent increase, \$46,680; actual increase, \$46,680, as follows:</p> <table><tr><td></td><td><i>New places.</i></td><td></td></tr><tr><td>3 clerks, class 4.....</td><td></td><td>\$5,400</td></tr><tr><td>10 clerks, class 3.....</td><td></td><td>16,000</td></tr><tr><td>10 clerks, class 2.....</td><td></td><td>14,000</td></tr><tr><td>9 clerks, class 1.....</td><td></td><td>10,800</td></tr><tr><td></td><td></td><td><hr/>46,200</td></tr></table> <p><i>Transfer from lump fund for extra labor, Secretary's office, which fund has been correspondingly reduced.</i></p> <p>2 charwomen, at \$240 each..... 480</p> <p>Actual increase..... 46,680</p> <p><i>General Expenses, Bureau of Crop Estimates—</i></p> <p>(17) <b>For all necessary expenses for collecting, compiling, abstracting, analyzing, summarizing, and interpreting data relating to agriculture; for making and publishing periodically crop and live-stock estimates, including acreage, yield, and value of farm products, as follows</b></p> <p>NOTE.—See note under item 20.</p> <p>(18) <b>Salaries and employment of labor in the city of Washington and elsewhere, supplies, telegraph and telephone service, freight and express charges, and all other necessary miscellaneous administrative expenses, \$25,480</b></p> <p>NOTE.—See note under item 20.</p> <p>(19) <b>Salaries, travel, and other necessary expenses of employees out of the city of Washington engaged in field investigations, \$216,562</b></p> <p>NOTE.—See note under item 20.</p> <p>(20) <i>For all necessary expenses, including salaries and the employment of labor in the city of Washington and elsewhere, freight and express charges, official traveling expenses, office fixtures, supplies, calculating machines, and other equipment for collecting, compiling, abstracting, analyzing, summarizing, interpreting and publishing data relating to agriculture, including field printing of special forms or schedules, and State crop reports; for making crop and live-stock estimates, including acreage, yield, number, and value, losses by diseases, insect pests, and adverse weather conditions, requirements and consumption of seeds, fertilizers, insecticides, and fungicides, and marketable surpluses on farms, by counties, recognized producing districts, and States, independently or in cooperation with other Federal and State departments and agencies (submitted)</i></p> |   | <i>New places.</i>  |                        | 3 clerks, class 4..... |                             | \$5,400 | 10 clerks, class 3..... |         | 16,000                      | 10 clerks, class 2..... |                        | 14,000  | 9 clerks, class 1.....      |         | 10,800                 |         |                             | <hr/> 46,200 | <p><hr/>\$792,042.00</p> | <p><hr/>\$242,042.00</p> |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
|   | <i>New places.</i>  |   |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| 3 clerks, class 4.....  |   | \$5,400   |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| 10 clerks, class 3.....   |   | 16,000  |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| 10 clerks, class 2.....   |   | 14,000  |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| 9 clerks, class 1.....  |   | 10,800  |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
|   |   | <hr/> 46,200  |                        |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| <table><tr><td>Appropriation for 1911.....</td><td>\$115,620</td><td>Estimate for 1912.....</td><td>\$124,900</td></tr><tr><td>Appropriation for 1912.....</td><td>122,900</td><td>Estimate for 1913.....</td><td>123,300</td></tr><tr><td>Appropriation for 1913.....</td><td>123,300</td><td>Estimate for 1914.....</td><td>123,300</td></tr><tr><td>Appropriation for 1914.....</td><td>123,300</td><td>Estimate for 1915.....</td><td>186,500</td></tr><tr><td>Appropriation for 1915.....</td><td>160,000</td><td>Estimate for 1916.....</td><td>174,656</td></tr><tr><td>Appropriation for 1916.....</td><td>166,700</td><td>Estimate for 1917.....</td><td>193,556</td></tr><tr><td>Appropriation for 1917.....</td><td>193,556</td><td>Estimate for 1918.....</td><td>219,596</td></tr><tr><td>Appropriation for 1918.....</td><td>200,572</td><td>Estimate for 1919.....</td><td>223,567</td></tr><tr><td>Appropriation for 1919.....</td><td>215,792</td><td>Estimate for 1920.....</td><td>259,821</td></tr><tr><td>Appropriation for 1920.....</td><td>242,042</td><td>Estimate for 1921.....</td><td>792,042</td></tr></table>   | Appropriation for 1911.....                                       | \$115,620   | Estimate for 1912..... | \$124,900              | Appropriation for 1912..... | 122,900 | Estimate for 1913.....  | 123,300 | Appropriation for 1913..... | 123,300                 | Estimate for 1914..... | 123,300 | Appropriation for 1914..... | 123,300 | Estimate for 1915..... | 186,500 | Appropriation for 1915..... | 160,000      | Estimate for 1916.....   | 174,656                  | Appropriation for 1916..... | 166,700 | Estimate for 1917..... | 193,556 | Appropriation for 1917..... | 193,556 | Estimate for 1918..... | 219,596 | Appropriation for 1918..... | 200,572 | Estimate for 1919..... | 223,567 | Appropriation for 1919..... | 215,792 | Estimate for 1920..... | 259,821 | Appropriation for 1920..... | 242,042 | Estimate for 1921..... | 792,042 |  |  |
| Appropriation for 1911.....   | \$115,620   | Estimate for 1912.....  | \$124,900              |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1912.....   | 122,900   | Estimate for 1913.....  | 123,300                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1913.....   | 123,300   | Estimate for 1914.....  | 123,300                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1914.....   | 123,300   | Estimate for 1915.....  | 186,500                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1915.....   | 160,000   | Estimate for 1916.....  | 174,656                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1916.....   | 166,700   | Estimate for 1917.....  | 193,556                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1917.....   | 193,556   | Estimate for 1918.....  | 219,596                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1918.....   | 200,572   | Estimate for 1919.....  | 223,567                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1919.....   | 215,792   | Estimate for 1920.....  | 259,821                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |
| Appropriation for 1920.....   | 242,042   | Estimate for 1921.....  | 792,042                |                        |                             |         |                         |         |                             |                         |                        |         |                             |         |                        |         |                             |              |                          |                          |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |  |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <p><i>General Expenses, Bureau of Crop Estimates—Continued.</i></p> <p>NOTE.—It is proposed to combine the two items "administrative expenses" and "field investigations," increase the total amount by \$550,000, and revise the language of the item to cover more specifically the various activities conducted and proposed by the bureau.</p> <p>An enlarged program has been outlined for the coming fiscal year, growing out of the need for more specific and complete information and the demand for such information which has developed during the past two years. In addition to the present monthly estimates by States on the total acreage, production, etc., of staple farm crops, and annual estimates of numbers and values of live stock, it is necessary to undertake, at the earliest practicable date, to furnish estimates which will show in detail not only the total agricultural production by States but by counties as well and, in addition, what portion of the various crops may be expected to find their way to market, <i>i. e.</i>, the commercial crop or marketable surplus. For this purpose there will be required in each State a small but compact organization consisting of a field agent, assistant field agent, and two clerks and also a number of specialists who will give their whole time to specific crops on a nation-wide basis, working in cooperation with all of the field agents and with farmers' organizations. The demand for this information comes not only from railroad officials, who must prepare to move the crops by ascertaining specifically the areas of heaviest production, and from trade and manufacturing organizations, whose credit, advertising, and manufacturing plans in many cases depend upon such information as these detailed estimates furnish, but also from farmers and farmers' organizations, as well as the State agricultural colleges and extension services, and especially the Federal and State bureaus of markets. These same organizations have lately evinced great interest in foreign crop statistics and the relation of foreign agricultural prospects to production activities in this country. In connection with the foregoing, it will therefore be necessary to expand the force of statistical scientists and expert statistical clerks engaged in translating foreign reports, converting foreign units into American units, and analyzing the data for publication, correspondence, and for use generally by this and other branches of the Government. The present funds of the bureau are grossly inadequate even for the present program of work. The increase recommended, if granted, will be applied as follows:</p> <p>(a) \$2,238 for administrative expenses, which amount is necessary to provide supplies and equipment required in the administration of the enlarged program, the present allotment being too low even for the limited program of work now in effect.</p> <p>(b) \$511,614 for crop reporting and estimating, including timely and dependable estimates on commercial surpluses, to be distributed as follows:</p> <ol style="list-style-type: none"> <li>(1) \$51,750 for cereal crops (corn, wheat (winter and spring), oats, barley, buckwheat, rye, rice, and grain sorghum).</li> <li>(2) \$36,875 for hay and forage crops (grass, clover, alfalfa, millet, and other tame and wild hay, forage crops and pastures).</li> <li>(3) \$144,718 for live stock (horses, mules, beef and dairy cattle, sheep, goats, swine, poultry, and live stock products).</li> <li>(4) \$23,960 for truck crops.</li> <li>(5) \$36,255 for all fruit crops (apples, pears, peaches, grapes, etc.).</li> <li>(6) \$23,590 for potatoes (white and sweet).</li> <li>(7) \$15,295 for sugar crops (beet, cane, maple, sorghum, and honey).</li> <li>(8) \$20,876 for cotton.</li> <li>(9) \$12,515 for the tobacco crop.</li> <li>(10) \$29,300 for leguminous crops (beans (dry, soy, and velvet), cow-peas, and peanuts).</li> <li>(11) \$13,670 for nut crops (pecans, walnuts, etc.).</li> <li>(12) \$18,320 for crops grown for seed (field and garden).</li> <li>(13) \$15,420 for crops grown for vegetable oil (cotton seed, peanuts, flaxseed, castor beans, soy beans, olives, and other plant products from which vegetable oils are extracted commercially).</li> <li>(14) \$15,370 for forest crops (lumber, telegraph and telephone poles, railroad ties, cord wood, tan bark, turpentine, rosin, and other products of forest and farm woodlots).</li> <li>(15) \$50,000 for nursery crops.</li> <li>(16) \$3,700 for miscellaneous small crops (hemp, flax, broom corn, hops, and other special investigations).</li> </ol> <p>(c) \$36,148 for projects in the Division of Crop Records and Research, to be distributed as follows:</p> <ol style="list-style-type: none"> <li>(1) \$1,435 for crop records, the object of which is to collect, index, and file all obtainable published and unpublished, official and unofficial, crop and live stock statistics and records for the United States and for foreign countries.</li> </ol> |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Crop Estimates—Continued.

(2) \$2,260 for translating into American units, tabulating, and recording crop and live stock statistics and estimates of foreign countries.

(3) \$405 for preparing cablegram and radiogram reports of crop and live stock estimates of the United States for transmission to the International Institute of Agriculture at Rome.

(4) \$1,185 for preparing agricultural statistical notes for issuance to the press through the Division of Publications.

(5) \$5,700 for preparing correspondence and special statistical tables for furnishing information in response to oral and written requests by Government officials, private individuals, business firms, and others.

(6) \$7,345 for compiling, tabulating, analyzing, correlating, summarizing, and interpreting crop and live stock statistics of the United States and foreign countries, and for presenting results by means of text, tables, maps, charts, and graphs.

(7) \$3,566 for conducting a series of analytical studies of the statistics of a single agricultural product or group of products, comparing the production by States and for the United States with the supply and consumption for a long series of years, and with the foreign supply and demand.

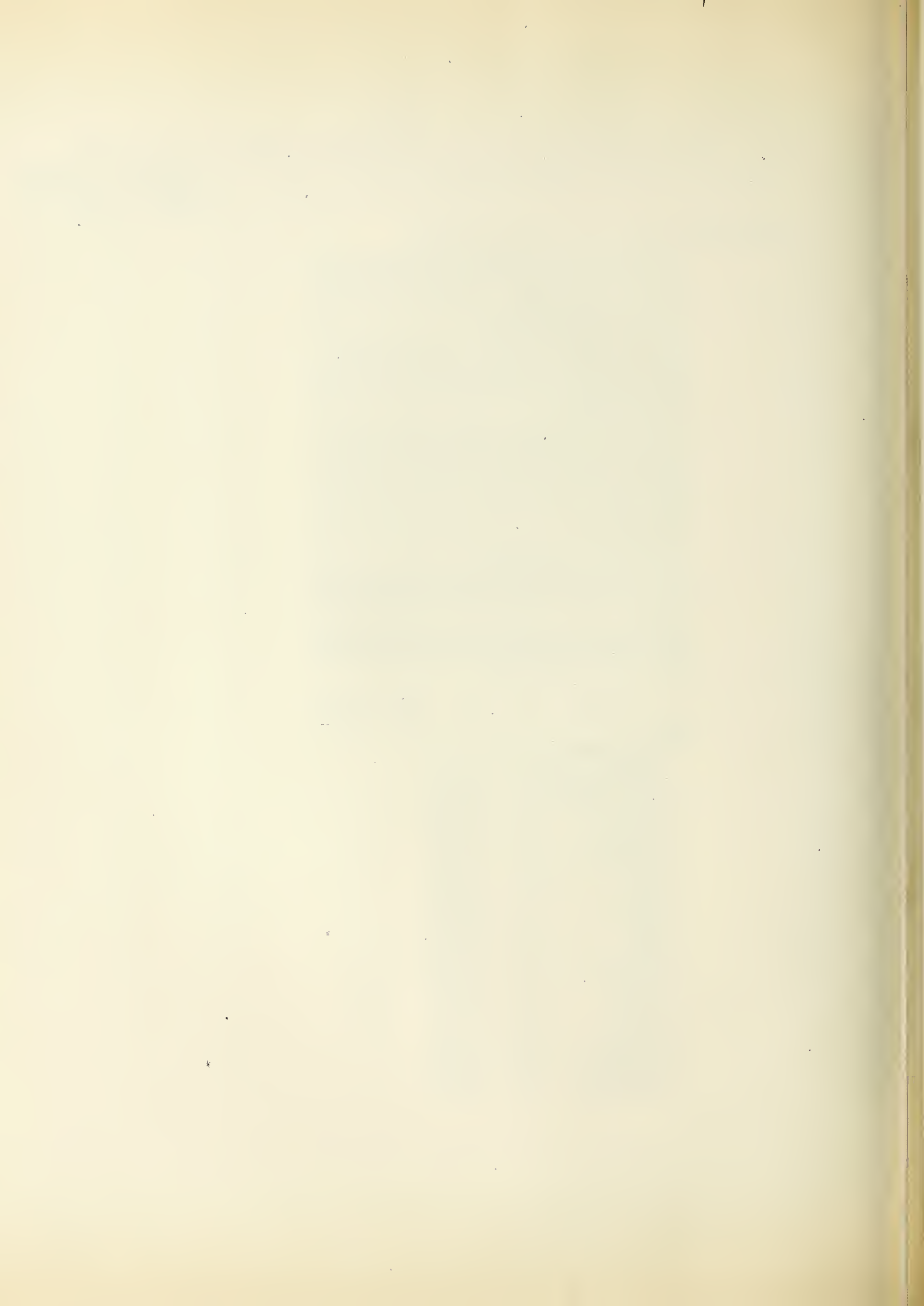
(8) \$1,500 for conducting a series of analytical studies, each study on a single important foreign country or group of countries, chiefly statistical summaries of crop acreages and production, numbers of farm animals, surplus and deficiency of supply in relation to consumption, and such collateral facts as quantity of fertilizer, seed, labor, yields per acre, and similar information.

(9) \$3,000 for conducting a series of analytical studies and making reports on the statistics of a single product or group of products which will be in the nature of a world balance sheet.

(10) \$4,900 for collecting, compiling, analyzing, correlating, summarizing, interpreting, and presenting by texts, tables, maps, charts, and graphs, data on wages and supply of farm labor, value of farm lands, prices farmers receive for their products, prices they pay for equipment, machinery, and supplies, and other essential data relating to agriculture as an industry.

(11) \$4,852 for preparing Yearbook articles, including the statistical appendixes, bulletins, monographs, articles, and notes for the Weekly Crop Reporter and Weekly News Letter, and press material, maps, charts, and graphs not provided for in other projects.

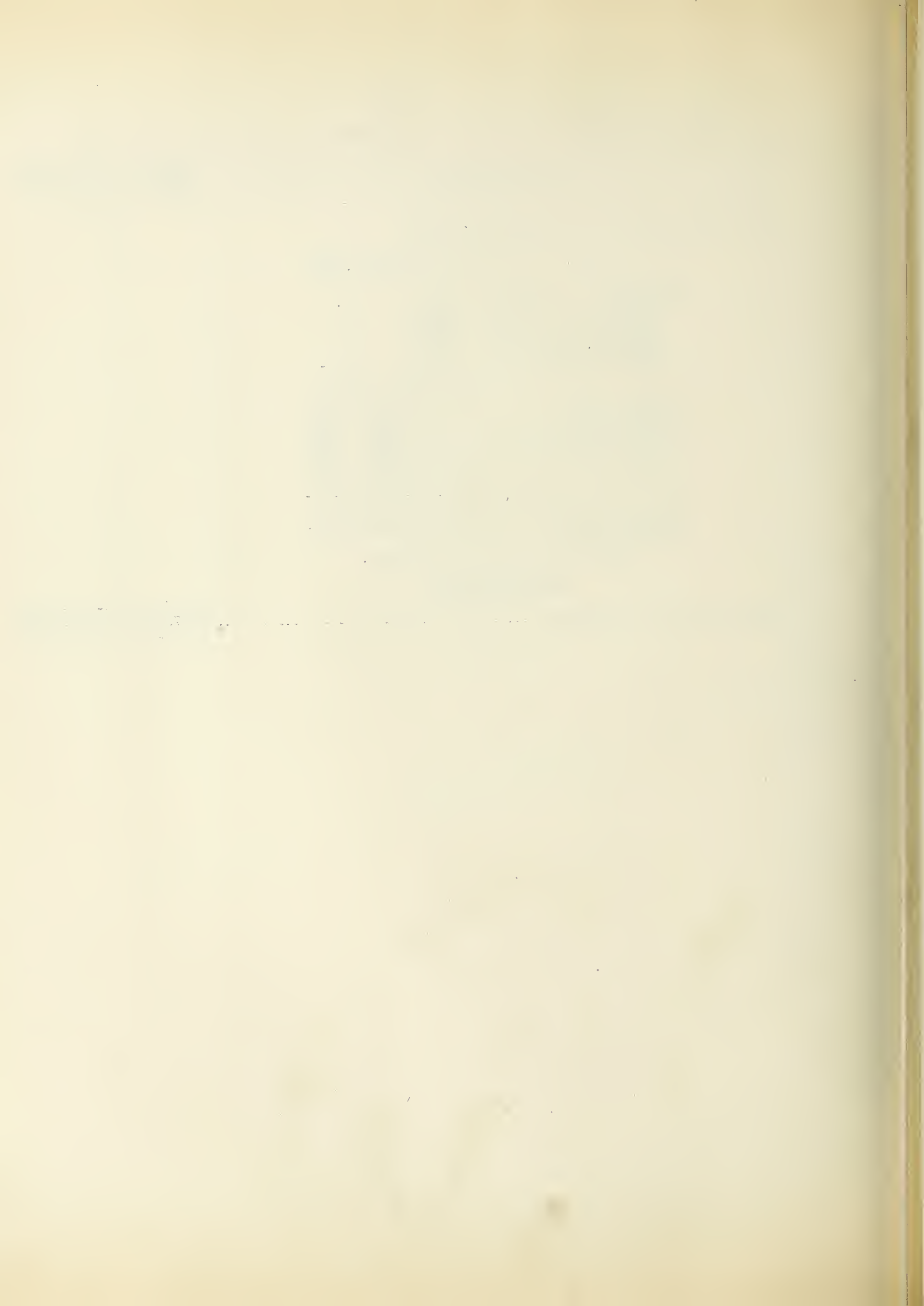
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |
|---|------------|------------------|-----------------|
| <b>Salaries:</b>  |            | <i>Number.</i>   | <i>Number.</i>  |
| Assistant chief of bureau...per annum...                          | \$3,750.00 | 1                | ..              |
| Assistant chief of bureau.....do....                              | 3,504.00   | ..               | 1               |
| Chief, division of crop records and research.....do....           | 2,520.00   | 1                | 1               |
| Assistant chief, division of crop records and research.....do.... | 2,400.00   | 1                | ..              |
| Chief, division of crop report.....do....                         | 2,400.00   | 1                | ..              |
| Chief, division of crop reports.....do....                        | 2,256.00   | ..               | 1               |
| Statistical scientists.....do....                                 | 3,504.00   | 3                | 1               |
| Statistical scientists.....do....                                 | 2,520.00   | 3                | ..              |
| Statistical scientist.....do....                                  | 2,000.00   | 1                | 1               |
| Editorial assistant.....do....                                    | 2,400.00   | 1                | ..              |
| Chief of field service.....do....                                 | 3,000.00   | 1                | ..              |
| Chief of field service.....do....                                 | 2,700.00   | ..               | 1               |
| Field specialist.....do....                                       | 2,700.00   | 1                | 1               |
| Officer in charge of field records.....do....                     | 2,400.00   | 1                | 1               |
| Field agent.....do....  | 2,520.00   | 1                | 1               |
| Field agents.....do....   | 2,400.00   | 7                | 6               |
| Field agents.....do....   | 2,280.00   | 3                | 3               |
| Field agents.....do....   | 2,256.00   | 6                | 4               |
| Field agents.....do....   | 2,100.00   | 9                | 8               |
| Field agents.....do....   | 2,040.00   | 10               | 9               |
| Field agents.....do....   | 2,016.00   | 2                | 2               |
| Field agent.....do....  | 2,000.00   | 1                | 1               |
| Field agents.....do....   | 1,860.00   | 2                | 4               |
| Field agents.....do....   | 1,800.00   | 2                | 2               |
| Assistant field agents.....do....                                 | 1,800.00   | 42               | ..              |
| Crop specialists.....do....                                       | 3,000.00   | 2                | ..              |
| Crop specialists.....do....                                       | 2,520.00   | 13               | 2               |
| Crop specialists.....do....                                       | 2,400.00   | 10               | ..              |
| Crop specialist.....do....  | 2,280.00   | ..               | 1               |
| Crop specialist.....do....  | 2,256.00   | 1                | 1               |
| Crop specialists.....do....                                       | 2,040.00   | 13               | 3               |
| Crop specialist.....do....  | 2,000.00   | 1                | 1               |
| Crop specialist.....do....  | 1,850.00   | 1                | 3               |
| Crop specialists.....do....                                       | 1,800.00   | ..               | 2               |
| Nursery specialist.....do....                                     | 2,700.00   | 1                | ..              |
| Nursery specialists.....do....                                    | 2,400.00   | 2                | ..              |
| Live stock specialist.....do....                                  | 3,000.00   | 1                | ..              |
| Live stock specialists.....do....                                 | 2,700.00   | 2                | ..              |
| Live stock specialists.....do....                                 | 2,520.00   | 2                | ..              |
| Live stock specialists.....do....                                 | 2,400.00   | 2                | ..              |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Crop Estimates—Continued.</i>  |            |                  |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries—Continued.   |            |                  |                 |   |   |
| Statistical clerks.....per annum..  | \$1,800.00 | 5                | ..              |   |   |
| Statistical clerks.....do.....  | 1,600.00   | 8                | ..              |   |   |
| Statistical clerks.....do.....  | 1,400.00   | 10               | ..              |   |   |
| Statistical clerks.....do.....  | 1,200.00   | 10               | ..              |   |   |
| Draftsman.....do.....   | 1,600.00   | 1                | ..              |   |   |
| Field clerks.....do.....  | 1,200.00   | 42               | ..              |   |   |
| Field clerks.....do.....  | 1,000.00   | 42               | ..              |   |   |
| Temporary clerks and assistants (32,000).....do.....  |            | 6                | ..              |   |   |
|   |            | 275              | 61              |   |   |
| Salaries.....   |            | \$474,766.00     | \$124,069.34    |   |   |
| Other objects of expenditure:   |            |                  |                 |   |   |
| Stationery.....   |            | 33,000.00        | 8,399.61        |   |   |
| Traveling expenses.....   |            | 225,300.00       | 70,257.20       |   |   |
| Equipment and material.....   |            | 20,000.00        | 3,993.97        |   |   |
| Telegraph and telephone service.....  |            | 8,000.00         | 961.61          |   |   |
| Rent.....   |            | 10,000.00        | 2,625.00        |   |   |
| Miscellaneous items.....  |            | 20,976.00        | 3,987.13        |   |   |
| Total.....  |            | 792,042.00       | 214,293.86      |   |   |
| Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).  |            |                  |                 |   |   |
| GENERAL EXPENSES—BUREAU OF CROP ESTIMATES.  |            |                  |                 |   |   |
| 1 clerk, \$1,400 per annum.   |            |                  |                 |   |   |
| 1 clerk, \$1,200 per annum.   |            |                  |                 |   |   |
| Total for Bureau of Crop Estimates.....   |            |                  |                 | \$967,782.00  | \$371,102.00  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| LIBRARY, DEPARTMENT OF AGRICULTURE.   |   |   |
| Salaries, Library, Department of Agriculture—   |   |   |
| (1) One librarian ( <i>R. S.</i> , p. 87, secs. 520-523; act July 24, 1919, vol. 41, pp. 259, 260, sec. 1) -----  | \$2, 000. 00  |   |
| (2) One clerk, class 3 ( <i>same acts</i> ) -----   | 1, 600. 00  |   |
| (3) Two clerks, class 2 (increase of 1) ( <i>same acts</i> ) -----  | 2, 800. 00  |   |
| NOTE.—The services of an additional clerk are needed on account of the greatly increased work of the library.   |   |   |
| (4) Six clerks, class 1 (increase of 1 by transfer from lump fund for general expenses) ( <i>same acts</i> ) -----  | 7, 200. 00  |   |
| (5) Three clerks, at \$1,080 each ( <i>same acts</i> ) -----  | 3, 240. 00  |   |
| (6) Three clerks, at \$1,020 each ( <i>same acts</i> ) -----  | 3, 060. 00  |   |
| (7) Four clerks, at \$1,000 each ( <i>same acts</i> ) -----   | 4, 000. 00  |   |
| (8) Six clerks, at \$900 each ( <i>same acts</i> ) -----  | 5, 400. 00  |   |
| (9) One clerk ( <i>same acts</i> ) -----  | 840. 00   |   |
| (10) One messenger ( <i>same acts</i> ) -----   | 720. 00   |   |
| (11) One messenger boy ( <i>same acts</i> ) -----   | 660. 00   |   |
| (12) Three messenger boys, at \$600 each ( <i>same acts</i> ) -----   | 1, 800. 00  |   |
| (13) <b>【One messenger boy, \$480】</b>  |   |   |
| NOTE.—It is recommended that this place be dropped. It has been vacant for some time, and the services of a messenger boy of this grade are no longer needed.           |   |   |
| (14) One charwoman (by transfer from lump fund for general expenses) ( <i>same acts</i> ) -----   | 600. 00   |   |
| (15) Two charwomen, at \$480 each ( <i>same acts</i> ) -----  | 960. 00   |   |
| Appropriations for 1911..... \$19,920   | Estimates for 1912..... \$23,000                                  |   |
| Appropriations for 1912..... 25,000   | Estimates for 1913..... 27,650                                    |   |
| Appropriations for 1913..... 25,780   | Estimates for 1914..... 29,520                                    |   |
| Appropriations for 1914..... 27,020   | Estimates for 1915..... 27,860                                    |   |
| Appropriations for 1915..... 27,860   | Estimates for 1916..... 29,720                                    |   |
| Appropriations for 1916..... 29,720   | Estimates for 1917..... 31,520                                    |   |
| Appropriations for 1917..... 31,520   | Estimates for 1918..... 34,920                                    |   |
| Appropriations for 1918..... 32,160   | Estimates for 1919..... 32,160                                    |   |
| Appropriations for 1919..... 32,160   | Estimates for 1920..... 32,160                                    |   |
| Appropriations for 1920..... 32,160   | Estimates for 1921..... 34,880                                    |   |
| NOTE.—Apparent increase, \$2,720; actual increase, \$920, as follows:   |   |   |
| <i>New place.</i>   |   |   |
| 1 clerk, class 2.....   | \$1, 400  |   |
| <i>Place dropped.</i>   |   |   |
| 1 messenger boy.....  | 480   |   |
| Actual increase.....  | 920   |   |
| <i>Transfers from lump fund for general expenses, which fund has been correspondingly reduced.</i>  |   |   |
| 1 clerk, class 1.....   | \$1, 200  |   |
| 1 charwoman.....  | 600   |   |
|   | 1, 800  |   |
| Apparent increase.....  | 2, 720  |   |
|   | \$34, 880. 00   | \$32, 160. 00   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
|--|---|---|------------------------|----------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|------------|-------|------------------|-----------------|-----------|--|--|--|--|------------|-----------|---------------------|---------------------------|--------|----|-----------|-----------------------|--------|-----------|-------------|--|--|---|---|---------------|--|------------|------------|-------------------------------|--|--|--|-----------------|--|--------|--------|-------------------------|--|--------|--------|-----------------------------|--|-----------|-----------|--------------------------|--|--------|-------|------------|--|-----------|-----------|-------------|-------------|
| <p><i>General Expenses, Library—</i></p> <p>(16) For books or reference, law books, technical and scientific books, papers and periodicals, and for expenses incurred in completing imperfect series; for the employment of additional assistants in the city of Washington and elsewhere; for official traveling expenses, and for library fixtures, library cards, supplies, and for all other necessary expenses, <b>【\$18,000】</b> <i>\$26,200 (act July 24, 1919, vol. 41, p. 260, sec. 1)</i> .....</p> <table><tr><td>Appropriation for 1911.....</td><td>\$15,400</td><td>Estimate for 1912.....</td><td>\$15,500</td></tr><tr><td>Appropriation for 1912.....</td><td>15,500</td><td>Estimate for 1913.....</td><td>15,500</td></tr><tr><td>Appropriation for 1913.....</td><td>15,500</td><td>Estimate for 1914.....</td><td>16,500</td></tr><tr><td>Appropriation for 1914.....</td><td>16,500</td><td>Estimate for 1915.....</td><td>17,500</td></tr><tr><td>Appropriation for 1915.....</td><td>17,500</td><td>Estimate for 1916.....</td><td>17,500</td></tr><tr><td>Appropriation for 1916.....</td><td>16,300</td><td>Estimate for 1917.....</td><td>18,000</td></tr><tr><td>Appropriation for 1917.....</td><td>18,000</td><td>Estimate for 1918.....</td><td>27,000</td></tr><tr><td>Appropriation for 1918.....</td><td>18,000</td><td>Estimate for 1919.....</td><td>18,000</td></tr><tr><td>Appropriation for 1919.....</td><td>18,000</td><td>Estimate for 1920.....</td><td>18,000</td></tr><tr><td>Appropriation for 1920.....</td><td>18,000</td><td>Estimate for 1921.....</td><td>26,200</td></tr></table> <p>NOTE.—There is an apparent increase in the above item of \$8,200, but taking into consideration transfers to the statutory roll, amounting to \$1,800, the actual increase is \$10,000. This amount is recommended in order to provide additional library facilities made necessary by the growth of the department and the inauguration of new lines of work and to meet the increased cost of books and periodicals.</p> <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td>Salaries:</td><td></td><td></td><td></td></tr><tr><td>Scientific assistants in library science.....per annum..</td><td>\$1,400.00</td><td>Number, 2</td><td>Number, 2 (1 temp.)</td></tr><tr><td>Messenger boy.....do.....</td><td>660.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Charwoman.....do.....</td><td>480.00</td><td>1 (temp.)</td><td>2 (1 temp.)</td></tr><tr><td></td><td></td><td>3</td><td>5</td></tr><tr><td>Salaries.....</td><td></td><td>\$3,000.00</td><td>\$2,249.33</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Stationery.....</td><td></td><td>500.00</td><td>221.23</td></tr><tr><td>Traveling expenses.....</td><td></td><td>250.00</td><td>145.82</td></tr><tr><td>Equipment and material.....</td><td></td><td>22,200.00</td><td>12,628.52</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>250.00</td><td>50.25</td></tr><tr><td>Total.....</td><td></td><td>26,200.00</td><td>15,295.15</td></tr></table> | Appropriation for 1911.....                                       | \$15,400  | Estimate for 1912..... | \$15,500 | Appropriation for 1912..... | 15,500 | Estimate for 1913..... | 15,500 | Appropriation for 1913..... | 15,500 | Estimate for 1914..... | 16,500 | Appropriation for 1914..... | 16,500 | Estimate for 1915..... | 17,500 | Appropriation for 1915..... | 17,500 | Estimate for 1916..... | 17,500 | Appropriation for 1916..... | 16,300 | Estimate for 1917..... | 18,000 | Appropriation for 1917..... | 18,000 | Estimate for 1918..... | 27,000 | Appropriation for 1918..... | 18,000 | Estimate for 1919..... | 18,000 | Appropriation for 1919..... | 18,000 | Estimate for 1920..... | 18,000 | Appropriation for 1920..... | 18,000 | Estimate for 1921..... | 26,200 | Employees. | Rate. | Estimated, 1921. | Expended, 1919. | Salaries: |  |  |  | Scientific assistants in library science.....per annum.. | \$1,400.00 | Number, 2 | Number, 2 (1 temp.) | Messenger boy.....do..... | 660.00 | .. | 1 (temp.) | Charwoman.....do..... | 480.00 | 1 (temp.) | 2 (1 temp.) |  |  | 3 | 5 | Salaries..... |  | \$3,000.00 | \$2,249.33 | Other objects of expenditure: |  |  |  | Stationery..... |  | 500.00 | 221.23 | Traveling expenses..... |  | 250.00 | 145.82 | Equipment and material..... |  | 22,200.00 | 12,628.52 | Miscellaneous items..... |  | 250.00 | 50.25 | Total..... |  | 26,200.00 | 15,295.15 | \$26,200.00 | \$18,000.00 |
| Appropriation for 1911.....  | \$15,400  | Estimate for 1912.....  | \$15,500               |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1912.....  | 15,500  | Estimate for 1913.....  | 15,500                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1913.....  | 15,500  | Estimate for 1914.....  | 16,500                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1914.....  | 16,500  | Estimate for 1915.....  | 17,500                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1915.....  | 17,500  | Estimate for 1916.....  | 17,500                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1916.....  | 16,300  | Estimate for 1917.....  | 18,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1917.....  | 18,000  | Estimate for 1918.....  | 27,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1918.....  | 18,000  | Estimate for 1919.....  | 18,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1919.....  | 18,000  | Estimate for 1920.....  | 18,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Appropriation for 1920.....  | 18,000  | Estimate for 1921.....  | 26,200                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Employees.   | Rate.   | Estimated, 1921.  | Expended, 1919.        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Salaries:  |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Scientific assistants in library science.....per annum..   | \$1,400.00  | Number, 2   | Number, 2 (1 temp.)    |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Messenger boy.....do.....  | 660.00  | ..  | 1 (temp.)              |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Charwoman.....do.....  | 480.00  | 1 (temp.)   | 2 (1 temp.)            |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
|  |   | 3   | 5                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Salaries.....  |   | \$3,000.00  | \$2,249.33             |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Other objects of expenditure:  |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Stationery.....  |   | 500.00  | 221.23                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Traveling expenses.....  |   | 250.00  | 145.82                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Equipment and material.....  |   | 22,200.00   | 12,628.52              |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Miscellaneous items.....   |   | 250.00  | 50.25                  |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Total.....   |   | 26,200.00   | 15,295.15              |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |
| Total for Library .....  | 61,080.00   | 50,160.00   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |            |       |                  |                 |           |  |  |  |  |            |           |                     |                           |        |    |           |                       |        |           |             |  |  |   |   |               |  |            |            |                               |  |  |  |                 |  |        |        |                         |  |        |        |                             |  |           |           |                          |  |        |       |            |  |           |           |             |             |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <b>MISCELLANEOUS EXPENSES.</b>   |   |   |
| <i>Miscellaneous Expenses, Department of Agriculture—</i>  |   |   |
| For stationery, blank books, twine, paper, gum, dry goods, soap, brushes, brooms, mats, oils, paints, glass, lumber, hardware, ice, fuel, water and gas pipes, heating apparatus, furniture, carpets, and mattings; for lights, freight, express charges, advertising, telegraphing, telephoning, postage, washing towels, and necessary repairs and improvements to buildings and heating apparatus; for the purchase, subsistence, and care of horses and the purchase and repair of harness and vehicles, for official purposes only; for the payment of duties on imported articles, and the Department of Agriculture's proportionate share of the expense of the dispatch agent in New York; for official traveling expenses; and for other miscellaneous supplies and expenses not otherwise provided for, and necessary for the practical and efficient work of the department, <b>[\$175,500] \$141,000</b> [of which \$33,000 shall be for necessary repairs to the central heating plant of the department] ( <i>act July 24, 1919, vol. 41, p. 260, sec. 1</i> ) ----- | \$141, 000. 00  | \$175, 500. 00  |

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1911..... | \$100,000 | Estimate for 1912..... | \$110,000 |
| Appropriation for 1912..... | 110,000   | Estimate for 1913..... | 96,066    |
| Appropriation for 1913..... | 106,066   | Estimate for 1914..... | 106,066   |
| Appropriation for 1914..... | 106,066   | Estimate for 1915..... | 110,000   |
| Appropriation for 1915..... | 110,000   | Estimate for 1916..... | 115,000   |
| Appropriation for 1916..... | 115,000   | Estimate for 1917..... | 115,000   |
| Appropriation for 1917..... | 122,500   | Estimate for 1918..... | 122,500   |
| Appropriation for 1918..... | 137,500   | Estimate for 1919..... | 137,500   |
| Appropriation for 1919..... | 142,500   | Estimate for 1920..... | 142,500   |
| Appropriation for 1920..... | 175,500   | Estimate for 1921..... | 141,000   |

NOTE.—There is a decrease in this item of \$34,500, due to the omission of the provision of \$33,000 for repairs to the department power plant, which repairs will be completed during the fiscal year 1920, and the transfer to the Division of Publications of \$1,500 heretofore allotted from this appropriation for the purchase of envelopes and miscellaneous supplies in connection with the informational and exhibit work of the department, which it is proposed to merge with the Division of Publications.

| Employees.                                 | Rate.     | Estimated, 1921. | Expended, 1919. |
|--|-----------|------------------|-----------------|
| Salaries:                                  |           | Number.          | Number.         |
| United States dispatch agent...per annum.. | \$600. 00 | 1                | 1               |
| Salaries.....                              |           | \$600. 00        | \$600. 00       |
| Other objects of expenditure:              |           |                  |                 |
| Stationery.....                            |           | 14,000. 00       | 13,394. 87      |
| Traveling expenses.....                    |           | 3,000. 00        | 1,885. 00       |
| Equipment and material.....                |           | 93,000. 00       | 92,087. 13      |
| Telephone and telegraph service.....       |           | 3,400. 00        | 3,182. 72       |
| Miscellaneous items.....                   |           | 27,000. 00       | 27,857. 38      |
| Total.....                                 |           | 141,000. 00      | 139,007. 10     |

*Statement of proposed expenditures from the appropriation for miscellaneous expenses, Department of Agriculture, for the fiscal year ending June 30, 1921, for the maintenance, repair, and operation of horse-drawn passenger-carrying vehicles, as required by section 5 of the act of July 16, 1914 (38 Stat., p. 508).*

| Office.                 | Horse-drawn or motor-propelled. | Appropriation.                                     | For maintenance, repair, and operation. |  |         | Public purpose for which intended.            | Officials and employees by whom used.                            |
|-------------------------|---------------------------------|--|---|--|---------|---|--|
|                         |                                 |  | Number.                                 | Description.   | Amount. |   |  |
| Secretary's office..... | Horse-drawn                     | Miscellaneous expenses, Department of Agriculture. | 1<br>1<br>2                             | Brougham.<br>Surrey.....<br>Victoria....<br>Carriages... | \$800   | Personal transportation on official business. | Secretary and Acting Secretary of Agriculture, Washington, D. C. |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| RENT IN THE DISTRICT OF COLUMBIA.   |   |   |
| <i>Rent of Buildings, Department of Agriculture—</i>  |   |   |
| For rent of buildings and parts of buildings in the District of Columbia, for use of the various bureaus, divisions, and offices of the Department of Agriculture, <b>[\$100,000]</b> \$150,000: <i>Provided</i> , That only such part of this sum shall be available to pay rent for space which can not be furnished by the Public Buildings Commission in Government buildings located in the District of Columbia ( <i>act July 24, 1919, vol. 41, p. 260, sec. 1</i> ) | \$150,000.00  | \$100,000.00  |

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1913..... | \$95,329 | Estimate for 1913..... | \$95,329 |
| Appropriation for 1914..... | 98,329   | Estimate for 1914..... | 95,329   |
| Appropriation for 1915..... | 108,329  | Estimate for 1915..... | 115,829  |
| Appropriation for 1916..... | 123,689  | Estimate for 1916..... | 123,689  |
| Appropriation for 1917..... | 123,689  | Estimate for 1917..... | 123,689  |
| Appropriation for 1918..... | 143,689  | Estimate for 1918..... | 143,689  |
| Appropriation for 1919..... | 158,689  | Estimate for 1919..... | 158,689  |
| Appropriation for 1920..... | 100,000  | Estimate for 1920..... | 158,689  |
|                             |          | Estimate for 1921..... | 150,000  |

NOTE.—There is an apparent increase in this item of \$50,000. As this amount includes the transfer of the \$41,509 item for rent carried in the Sundry Civil Act for the fiscal year 1920, however, the actual increase is only \$8,491. The total appropriation for rent in the District of Columbia for the fiscal year 1919 was \$158,689. Congress reduced the department's rent appropriation for 1920 by \$58,689 on the assumption that the Public Buildings Commission would be able to allot space in temporary structures to make up the deficit, but the Commission found it possible to allot only a part of the space required, having a rental value of \$17,180. It was therefore necessary to make up the difference (\$41,509) by special provision in the Sundry Civil Act to cover the rental of buildings already occupied by and needed in the work of the department. The proposed increase, \$8,491, is in the nature of an insurance fund, to be used only in case it becomes necessary to meet additional obligations during the fiscal year 1921 for the rental of buildings now occupied by the department.

| Other objects of expenditure. | Estimated, 1921. | Expended, 1919. |
|-------------------------------|------------------|-----------------|
| Rent of buildings.....        | \$150,000.00     | \$150,449.87    |

*Statement showing estimated amounts that will be paid from the above appropriation during the fiscal year 1920 for quarters to be occupied by the various branches of the department (38 Stat., p. 1108).*

|   |             |
|---|-------------|
| Bureau of Markets.....                  | \$12,334.00 |
| Library, Department of Agriculture..... | 5,512.00    |
| Bureau of Biological Survey.....        | 4,199.00    |
| Division of Publications.....           | 7,585.00    |
| Bureau of Plant Industry.....           | 24,418.75   |
| Bureau of Crop Estimates.....           | 1,583.00    |
| States Relations Service.....           | 16,029.00   |
| Forest Service.....                     | 23,190.00   |
| Bureau of Chemistry.....                | 19,660.00   |
| Bureau of Animal Industry.....          | 4,665.25    |
| Bureau of Soils.....                    | 585.00      |
| Bureau of Public Roads.....             | 10,700.00   |
| Office of the Solicitor.....            | 3,000.00    |
| Insecticide and Fungicide Board.....    | 2,650.00    |
| Federal Horticultural Board.....        | 240.00      |
| Office of the Secretary.....            | 359.00      |
| Office of Farm Management.....          | 3,225.00    |
| Weather Bureau.....                     | 500.00      |
| Emergency Rentals.....                  | 1,074.00    |
|   | 141,509.00  |

NOTE.—For statement of all buildings and parts of buildings in the District of Columbia rented by the Department of Agriculture, see page 291.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

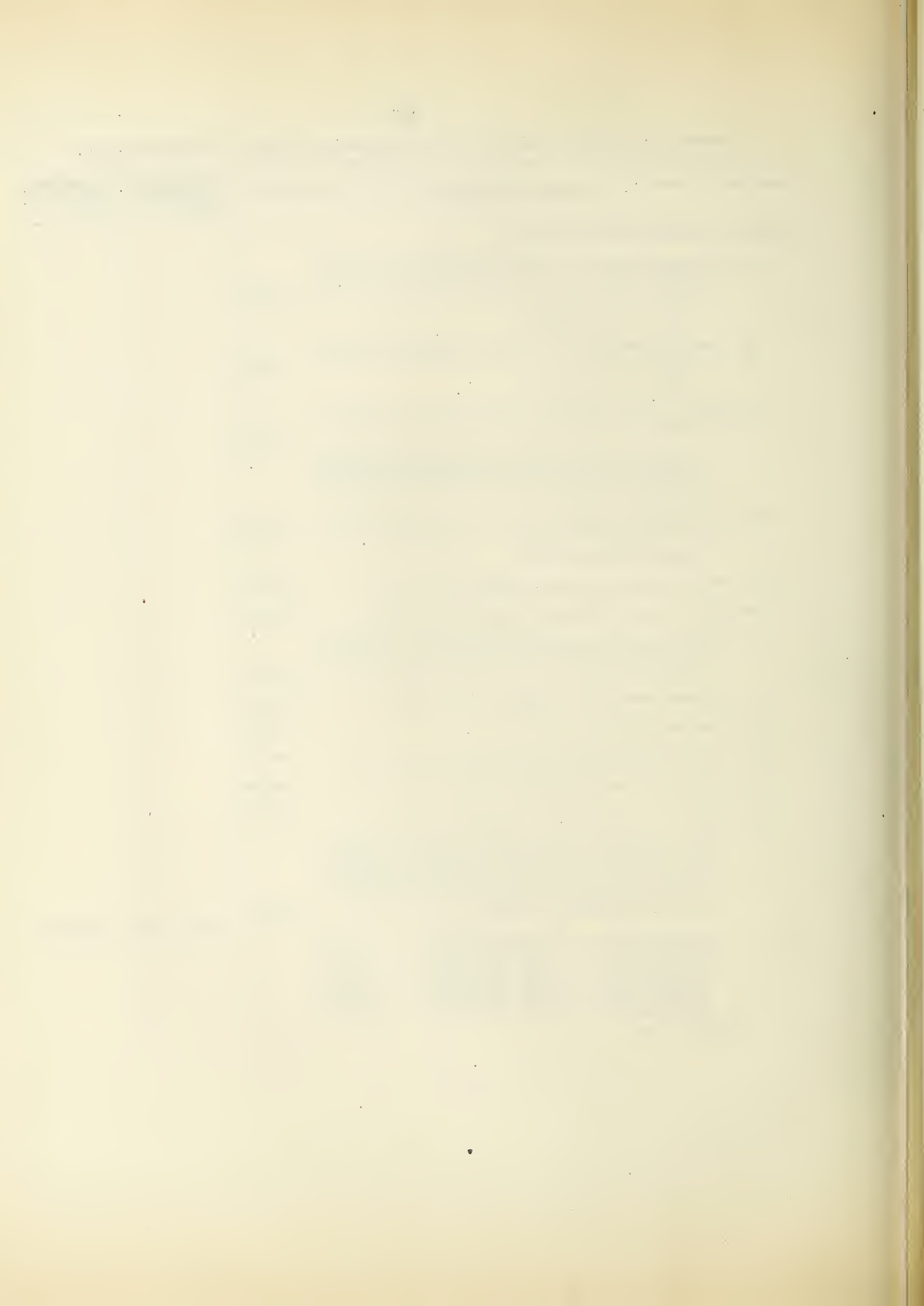
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| STATES RELATIONS SERVICE.  |   |   |
| <i>Salaries, States Relations Service—</i>   |   |   |
| (1) One director ( <i>R. S., p. 87, secs. 520-523; act July 24, 1919, vol. 41, p. 260, sec. 1</i> ) .....  | \$4,500.00  |   |
| (2) One chief clerk ( <i>same acts</i> ) .....   | 2,000.00  |   |
| (3) One clerk or chief accountant ( <i>same acts</i> ) .....   | 2,400.00  |   |
| (4) One financial clerk ( <i>same acts</i> ) .....   | 2,000.00  |   |
| (5) One clerk ( <i>same acts</i> ) .....   | 1,980.00  |   |
| (6) One clerk or proof reader ( <i>same acts</i> ) .....   | 1,800.00  |   |
| (7) Five clerks, class 4 (increase of 1 by transfer from lump fund for farmers' cooperative demonstrations in North and West) ( <i>same acts</i> ) .....   | 9,000.00  |   |
| (8) One executive clerk (by transfer from lump fund for home economics) ( <i>same acts</i> ) .....   | 1,740.00  |   |
| (9) Eleven clerks, class 3 ( <i>same acts</i> ) .....  | 17,600.00   |   |
| (10) Two clerks, at \$1,500 each ( <i>same acts</i> ) .....  | 3,000.00  |   |
| (11) Seventeen clerks, class 2 (increase of 4 by transfer from lump fund for farmers' cooperative demonstrations in North and West) ( <i>same acts</i> ) .....   | 23,800.00   |   |
| (12) Two clerks, at \$1,320 each ( <i>same acts</i> ) .....  | 2,640.00  |   |
| (13) One clerk ( <i>same acts</i> ) .....  | 1,260.00  |   |
| (14) Fifty-two clerks, class 1 (increase of 16 by transfer from lump funds, 4 from colleges and stations, and 12 from farmers' cooperative demonstrations in North and West) ( <i>same acts</i> ) .....  | 62,400.00   |   |
| (15) One clerk or artist-draftsman (by transfer from lump fund for farmers' cooperative demonstrations in North and West) ( <i>same acts</i> ) .....   | 1,200.00  |   |
| (16) One clerk or machine operator (by transfer from lump fund for farmers' cooperative demonstrations in South) ( <i>same acts</i> ) .....  | 1,200.00  |   |
| (17) Twenty-seven clerks, at \$1,100 each (increase of 24 by transfer from lump funds, 3 from colleges and stations, 10 from farmers' cooperative demonstrations in North and West, 8 from farmers' cooperative demonstrations in South, 2 from farmers' institutes and agricultural schools, and 1 from general administrative expenses) ( <i>same acts</i> ) ..... | 29,700.00   |   |
| (18) Thirty-nine clerks, at \$1,000 each ( <i>same acts</i> ) .....  | 39,000.00   |   |
| (19) Thirty-one clerks, at \$900 each ( <i>same acts</i> ) .....   | 27,900.00   |   |
| (20) One clerk or lantern-slide colorist ( <i>same acts</i> ) .....  | 900.00  |   |

1785

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

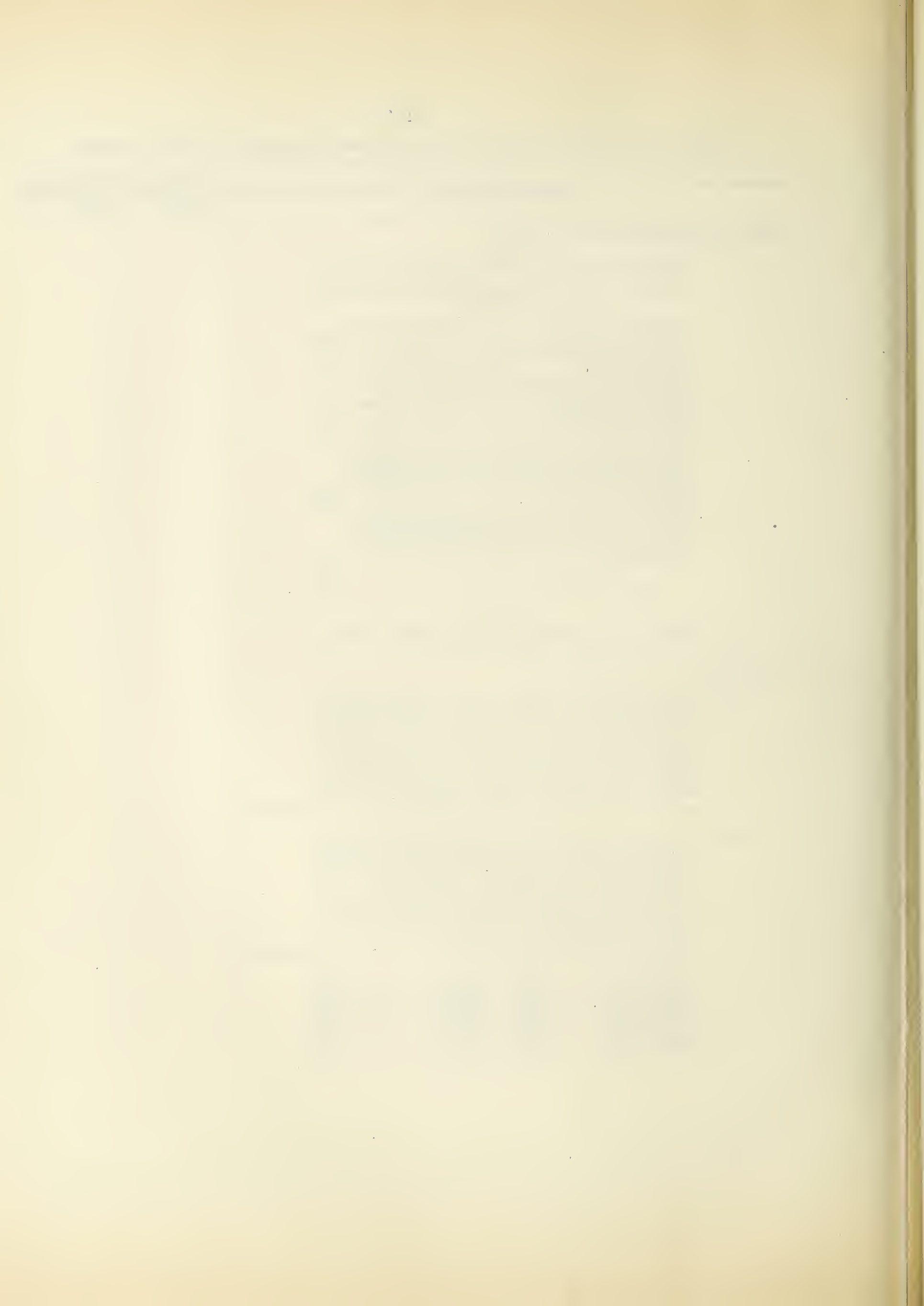
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|---|---|
| <i>Salaries, States Relations Service—Continued.</i>   |            |   |   |
| (21) One clerk (decrease of 2 by change to 2 messengers or laborers, at \$840 each) ( <i>R. S. p. 87, secs. 520-523; act July 24, 1919, vol. 41, p. 260, sec. 1</i> )  | \$840. 00  |   |   |
| NOTE.—See note under item 23.  |            |   |   |
| (22) One clerk (decrease of 1 by change to 1 messenger or laborer, \$720) ( <i>same acts</i> )   | 720. 00    |   |   |
| NOTE.—See note under item 23.  |            |   |   |
| (23) Two messengers or laborers, at \$840 each (in lieu of 2 clerks, at \$840 each) ( <i>same acts</i> )   | 1, 680. 00 |   |   |
| NOTE.—The changes in designation proposed under this item and item 24 are recommended in order to make it possible to utilize the places by the transfer of employees from the lump fund. It is impossible to obtain clerks at these low salaries.   |            |   |   |
| (24) Six messengers or laborers, at \$720 each (increase of 1 in lieu of 1 clerk, \$720) ( <i>same acts</i> )  | 4, 320. 00 |   |   |
| NOTE.—See note under item 23.  |            |   |   |
| (25) Two messengers or laborers, at \$600 each ( <i>same acts</i> )  | 1, 200. 00 |   |   |
| (26) Three messengers or laborers, at \$480 each ( <i>same acts</i> )  | 1, 440. 00 |   |   |
| (27) Four messenger boys, at \$600 each (increase of 1 by transfer from lump fund for farmers' institutes and agricultural schools) ( <i>same acts</i> )   | 2, 400. 00 |   |   |
| (28) Thirteen messenger boys, at \$480 each ( <i>same acts</i> )   | 6, 240. 00 |   |   |
| (29) One messenger boy ( <i>same acts</i> )  | 360. 00    |   |   |
| (30) Three messenger boys, at \$300 each ( <i>same acts</i> )  | 900. 00    |   |   |
| (31) One skilled laborer ( <i>same acts</i> )  | 900. 00    |   |   |
| (32) Four charwomen, at \$480 each ( <i>same acts</i> )  | 1, 920. 00 |   |   |
| (33) Eighteen charwomen, at \$240 each (increase of 7 by transfer from lump funds, 2 from general administrative expenses, 2 from farmers' cooperative demonstrations in North and West, 1 from farmers' cooperative demonstrations in South, 1 from farmers' institutes and agricultural schools, and 1 from home economics) ( <i>same acts</i> ) | 4, 320. 00 |   |   |
|  |            | \$263, 260. 00  | \$203, 840. 00  |
| Appropriations for 1911.....   | \$46, 180  | Estimates for 1912.....   | \$56, 500   |
| Appropriations for 1912.....   | 56, 500    | Estimates for 1913.....   | 59, 840   |
| Appropriations for 1913.....   | 58, 240    | Estimates for 1914.....   | 66, 740   |
| Appropriations for 1914.....   | 66, 160    | Estimates for 1915.....   | 68, 840   |
| Appropriations for 1915.....   | 68, 840    | Estimates for 1916.....   | 103, 140  |
| Appropriations for 1916.....   | 103, 140   | Estimates for 1917.....   | 127, 700  |
| Appropriations for 1917.....   | 127, 540   | Estimates for 1918.....   | 137, 740  |
| Appropriations for 1918.....   | 135, 080   | Estimates for 1919.....   | 180, 980  |
| Appropriations for 1919.....   | 180, 980   | Estimates for 1920.....   | 203, 840  |
| Appropriations for 1920.....   | 203, 840   | Estimates for 1921.....   | 263, 260  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation.  | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|--|---|
| <i>Salaries, States Relations Service—Continued.</i>  |  |   |
| NOTE.—Apparent increase, \$59,420; no actual increase, as follows:  |  |   |
| <i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>   |  |   |
| 1 clerk, class 4, from farmers' cooperative demonstrations in North and West..... \$1,800<br>1 executive clerk, from home economics..... 1,740<br>4 clerks, class 2, from farmers' cooperative demonstrations in North and West..... 5,600<br>16 clerks, class 1, 4 from colleges and stations and 12 from farmers' cooperative demonstrations in North and West..... 19,200<br>1 clerk or artist-draftsman, from farmers' cooperative demonstrations in North and West..... 1,200<br>1 clerk or machine operator, from farmers' cooperative demonstrations in South..... 1,200<br>24 clerks, at \$1,100 each, 3 from colleges and stations, 10 from farmers' cooperative demonstrations in North and West, 8 from farmers' cooperative demonstrations in South, 2 from farmers' institutes and agricultural schools, and 1 from general administrative expenses..... 26,400<br>1 messenger boy, from farmers' institutes and agricultural schools..... 600<br>7 charwomen, at \$240 each, 2 from general administrative expenses, 2 from farmers' cooperative demonstrations in North and West, 1 from farmers' cooperative demonstrations in South, 1 from farmers' institutes and agricultural schools, and 1 from home economics..... 1,630 |  |   |
| Apparent increase..... 59,420   |  |   |
| <i>Change of title.</i>   |  |   |
| 2 clerks, at \$840 each, changed to 2 messengers or laborers, at \$840 each.<br>1 clerk, \$720, changed to 1 messenger or laborer, \$720.   |  |   |
| <i>General Expenses, States Relations Service—</i>  |  |   |
| (34) To carry into effect the provisions of an Act approved March 2, 1887, entitled "An Act to establish agricultural experiment stations in connection with the colleges established in the several States under the provisions of an Act approved July 2, 1862, and of the Acts supplementary thereto," the sums apportioned to the several States and Territories, to be paid quarterly in advance ( <i>acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; July 24, 1919, vol. 41, p. 260, sec. 1</i> ).....   |  | \$720,000.00  |
| (35) To carry into effect the provisions of an Act approved March 16, 1906, entitled "An Act to provide for an increased annual appropriation for agricultural experiment stations and regulating the expenditure thereof," the sums apportioned to the several States and Territories, to be paid quarterly in advance, \$720,000: <i>Provided</i> , That not to exceed \$15,000 shall be paid to each State and Territory under this Act ( <i>acts Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; July 24, 1919, vol. 41, p. 261, sec. 1</i> ).....   |  | 720,000.00  |
| Appropriation for 1911..... \$750,000<br>Appropriation for 1912..... 1,440,000<br>Appropriation for 1913..... 1,440,000<br>Appropriation for 1914..... 1,440,000<br>Appropriation for 1915..... 1,440,000<br>Appropriation for 1916..... 1,440,000<br>Appropriation for 1917..... 1,440,000<br>Appropriation for 1918..... 1,440,000<br>Appropriation for 1919..... 1,440,000<br>Appropriation for 1920..... 1,440,000  | Estimate for 1912..... \$750,000<br>Estimate for 1913..... 1,440,000<br>Estimate for 1914..... 1,440,000<br>Estimate for 1915..... 1,440,000<br>Estimate for 1916..... 1,440,000<br>Estimate for 1917..... 1,440,000<br>Estimate for 1918..... 1,440,000<br>Estimate for 1919..... 1,440,000<br>Estimate for 1920..... 1,440,000<br>Estimate for 1921..... 1,440,000 |   |

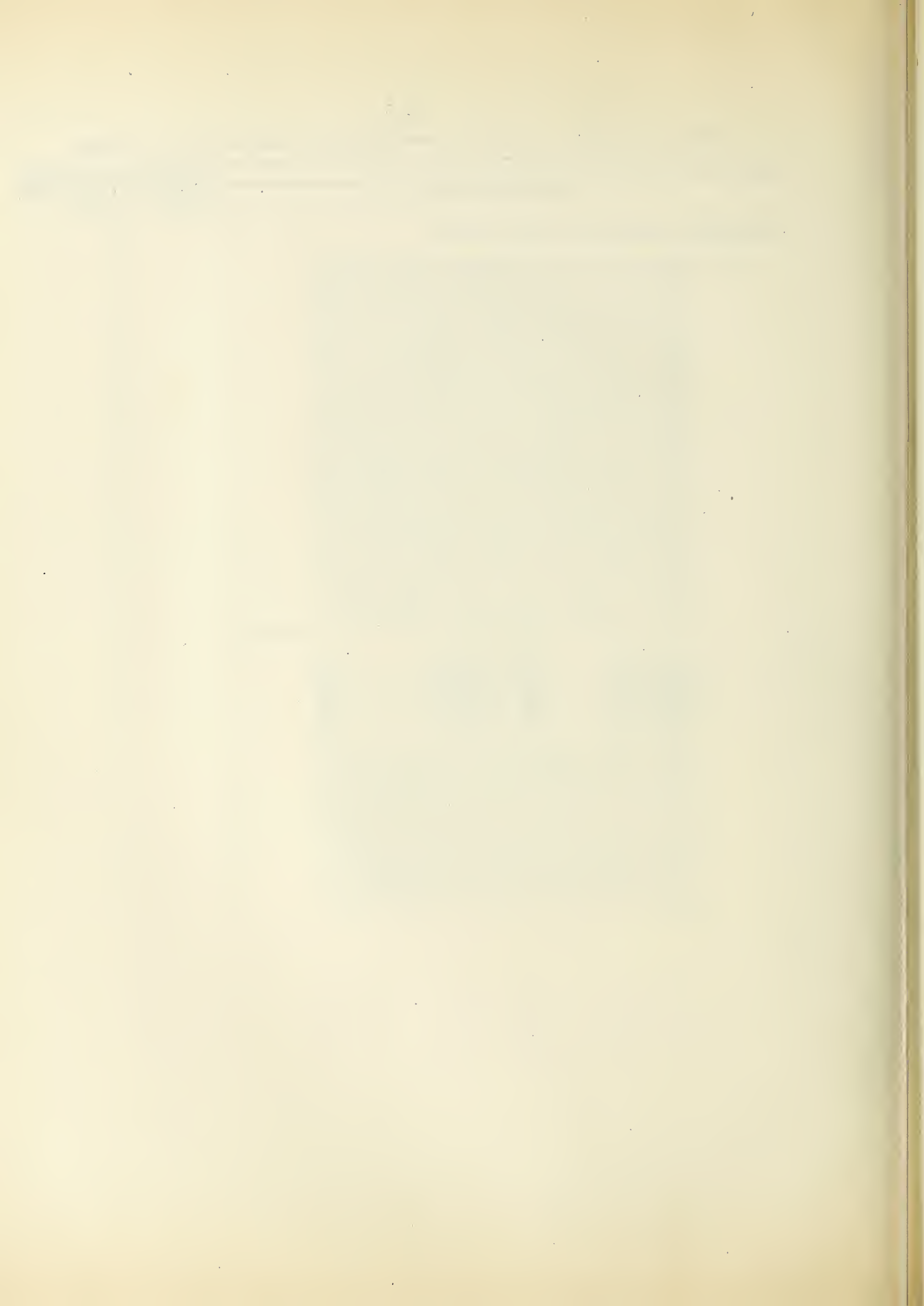




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation.  | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|--|---|
| <i>General Expenses, States Relations Service—Continued.</i>   |  |   |
| (36) To enable the Secretary of Agriculture to enforce the provisions of the above Acts and the Act approved May 8, 1914, entitled "An Act to provide for cooperative agricultural extension work between the agricultural colleges in the several States receiving the benefits of an Act of Congress approved July 2, 1862, and of Acts supplementary thereto, and the United States Department of Agriculture," relative to their administration and for the administration of agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States, including the employment of clerks, assistants, and other persons in the city of Washington and elsewhere, freight and express charges, official traveling expenses, office fixtures, supplies, apparatus, telegraph and telephone service, gas, electric current, and rent outside of the District of Columbia, <b>[\$69,600]</b> \$71,500; and the Secretary of Agriculture shall prescribe the form of the annual financial statement required under the above Acts, ascertain whether the expenditures are in accordance with their provisions, coordinate the work of the Department of Agriculture with that of the State agricultural colleges and experiment stations in the lines authorized in said Acts, and make report thereon to Congress ( <i>acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1</i> )----- | \$71,500.00  |   |
| Appropriation for 1911.....\$20,000<br>Appropriation for 1912.....37,500<br>Appropriation for 1913.....38,400<br>Appropriation for 1914.....40,500<br>Appropriation for 1915.....50,500<br>Appropriation for 1916.....59,500<br>Appropriation for 1917.....58,500<br>Appropriation for 1918.....68,500<br>Appropriation for 1919.....68,500<br>Appropriation for 1920.....69,600   | Estimate for 1912.....\$20,000<br>Estimate for 1913.....38,400<br>Estimate for 1914.....42,500<br>Estimate for 1915.....42,255<br>Estimate for 1916.....59,500<br>Estimate for 1917.....74,780<br>Estimate for 1918.....68,500<br>Estimate for 1919.....68,500<br>Estimate for 1920.....74,600<br>Estimate for 1921.....71,500 |   |
| <p>NOTE.—There is an apparent increase in this item of \$1,900, but, including transfers to the statutory roll aggregating \$8,100, the actual increase is \$10,000. This amount will be necessary in order to provide for the additional expenses that will be involved in the inspection of the college extension work, accounts, preparation of reports, etc., in connection with the administration of the Smith-Lever Act. The Federal and State funds for carrying out the provisions of this act during the fiscal year 1921 will be increased by \$1,000,000. In addition, the expenditure of the \$3,000,000 supplemental Federal and State appropriations for extension work will necessitate an amount of work next year which can not be provided for with the present appropriation.</p> <p>There is also need for increasing the allotment for the inspection of the work and expenditures of the experiment stations under the Hatch and Adams Acts, in order to meet the higher cost of supplies, equipment, travel, etc.</p>  |  |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

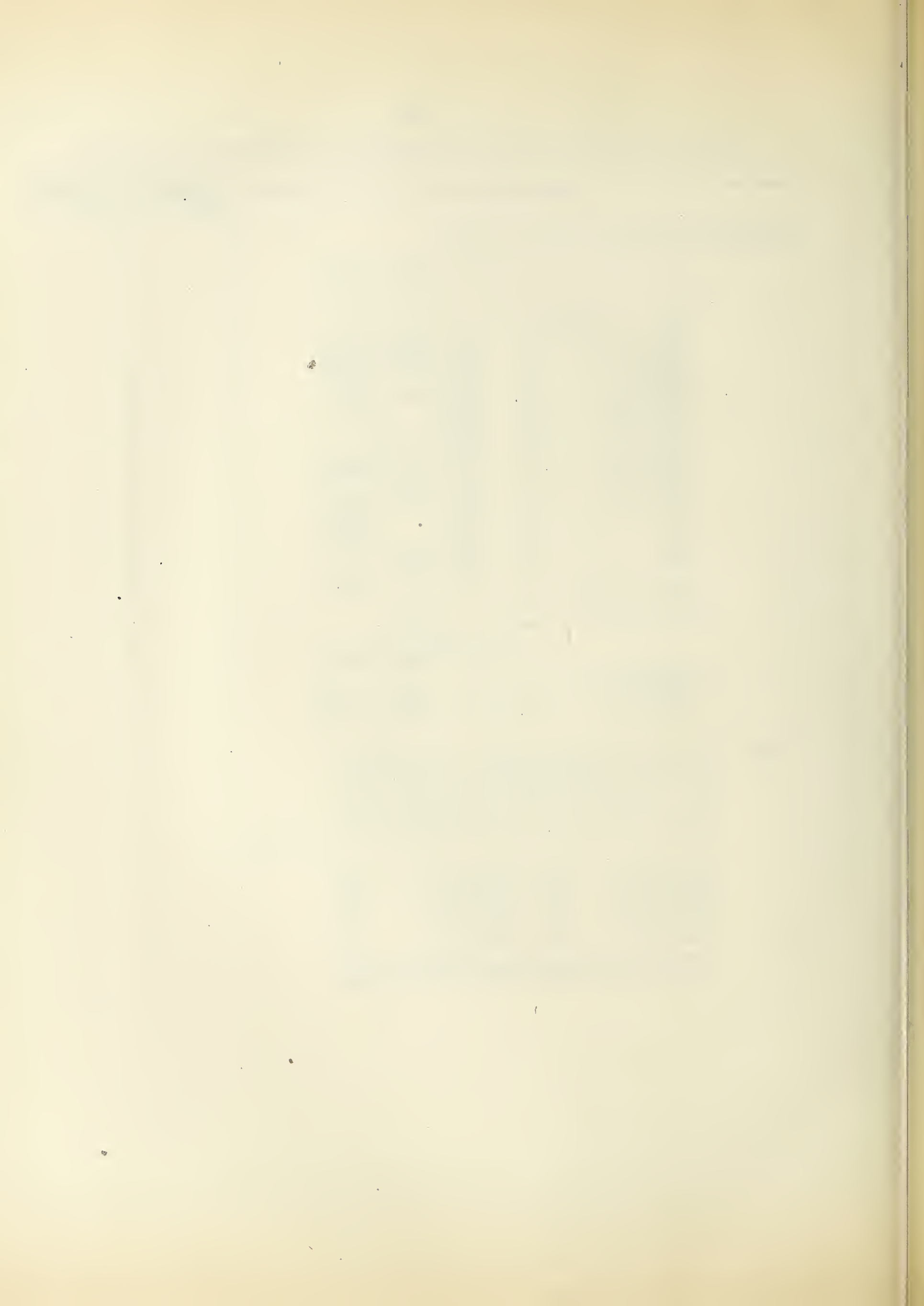
## General Expenses, States Relations Service—Continued.

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.      |
|---|------------|---------------------|-------------------------|
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>          |
| Agricultural chemist and chief.....per annum..                    | \$4,000.00 | 1                   | 1                       |
| Agriculturist and assistant chief.....do....                      | 3,750.00   | 1 (pt. time)        | 1 (pt. time)            |
| Agricultural physicist.....do....                                 | 3,500.00   | 1 (pt. time)        | 1 (pt. time)            |
| Agriculturists.....do....   | 3,000.00   | 5 (pt. time)        | 4 (pt. time)            |
| Agriculturists.....do....   | 2,700.00   | 1 (pt. time)        | 1 (pt. time)            |
| Agriculturist.....do....  | 2,520.00   | 1                   | 1 (temp.)               |
| Specialist in botany.....do....                                   | 3,500.00   | 1                   | 1                       |
| Extension specialist.....do....                                   | 2,760.00   | 1 (pt. time)        | 1 (pt. time)            |
| Extension specialist.....do....                                   | 2,500.00   | 1                   | 1 (temp.)               |
| Scientific assistant.....do....                                   | 3,000.00   | 1                   | 1                       |
| Scientific assistant.....do....                                   | 2,640.00   | 1                   | 1                       |
| Scientific assistant.....do....                                   | 2,580.00   | 1                   | 1                       |
| Scientific assistants.....do....                                  | 2,520.00   | 3                   | 3                       |
| Scientific assistant.....do....                                   | 2,400.00   | 1 (pt. time)        | 1                       |
| Scientific assistants.....do....                                  | 2,220.00   | 1                   | 2 (1 pt. time; 1 temp.) |
| Scientific assistants.....do....                                  | 1,800.00   | 5 (1 pt. time)      | 5 (1 pt. time)          |
| Scientific assistant.....do....                                   | 1,740.00   | 1                   | 1                       |
| Scientific assistant.....do....                                   | 1,560.00   | 1 (pt. time)        | 1                       |
| Scientific assistants.....do....                                  | 1,500.00   | 1 (pt. time)        | 2 (1 pt. time; 1 temp.) |
| Clerk.....do....  | 2,400.00   | 1                   | 1 (pt. time)            |
| Clerk.....do....  | 1,980.00   | 1                   | 1 (pt. time)            |
| Clerks.....do....   | 1,600.00   | 1                   | 2 (1 pt. time; 1 temp.) |
| Clerk.....do....  | 1,400.00   | 1                   | 1                       |
| Clerks.....do....   | 1,200.00   | 3 (temp.)           | 3                       |
| Clerks.....do....   | 1,100.00   | 1 (temp.)           | 4 (1 pt. time; 1 temp.) |
| Clerks.....do....   | 1,000.00   | 1                   | 2 (1 pt. time)          |
| Messenger boys and charwomen, \$600 to \$240.....do....           |            | 2 (temp.)           | 1                       |
| Wages:  |            |                     |                         |
| Miscellaneous temporary labor, \$5.25 to \$3.36.....per diem..... |            | 2 (temp.)           | 1                       |
|   |            | 35                  | 43                      |
| Salaries.....   |            | \$61,500.00         | \$58,333.49             |
| Wages.....  |            | 750.00              |                         |
| Other objects of expenditure:                                     |            |                     |                         |
| Stationery.....   |            | 650.00              | 418.47                  |
| Traveling expenses.....   |            | 7,100.00            | 7,332.42                |
| Miscellaneous items.....  |            | 1,500.00            | 697.93                  |
| Total.....  |            | 71,500.00           | 66,782.31               |

- (37) For farmers' cooperative demonstration work outside of the cotton belt, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses **[\$751,280]** (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1*)-----\$715,720.00

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1911..... | \$130,000 | Estimate for 1912..... | \$138,920 |
| Appropriation for 1912..... | 142,920   | Estimate for 1913..... | 186,020   |
| Appropriation for 1913..... | 300,000   | Estimate for 1914..... | 435,700   |
| Appropriation for 1914..... | 375,000   | Estimate for 1915..... | 365,520   |
| Appropriation for 1915..... | 400,000   | Estimate for 1916..... | 386,080   |
| Appropriation for 1916..... | 386,080   | Estimate for 1917..... | 378,240   |
| Appropriation for 1917..... | 478,240   | Estimate for 1918..... | 578,240   |
| Appropriation for 1918..... | 578,240   | Estimate for 1919..... | 554,800   |
| Appropriation for 1919..... | 554,800   | Estimate for 1920..... | 551,280   |
| Appropriation for 1920..... | 751,280   | Estimate for 1921..... | 715,720   |

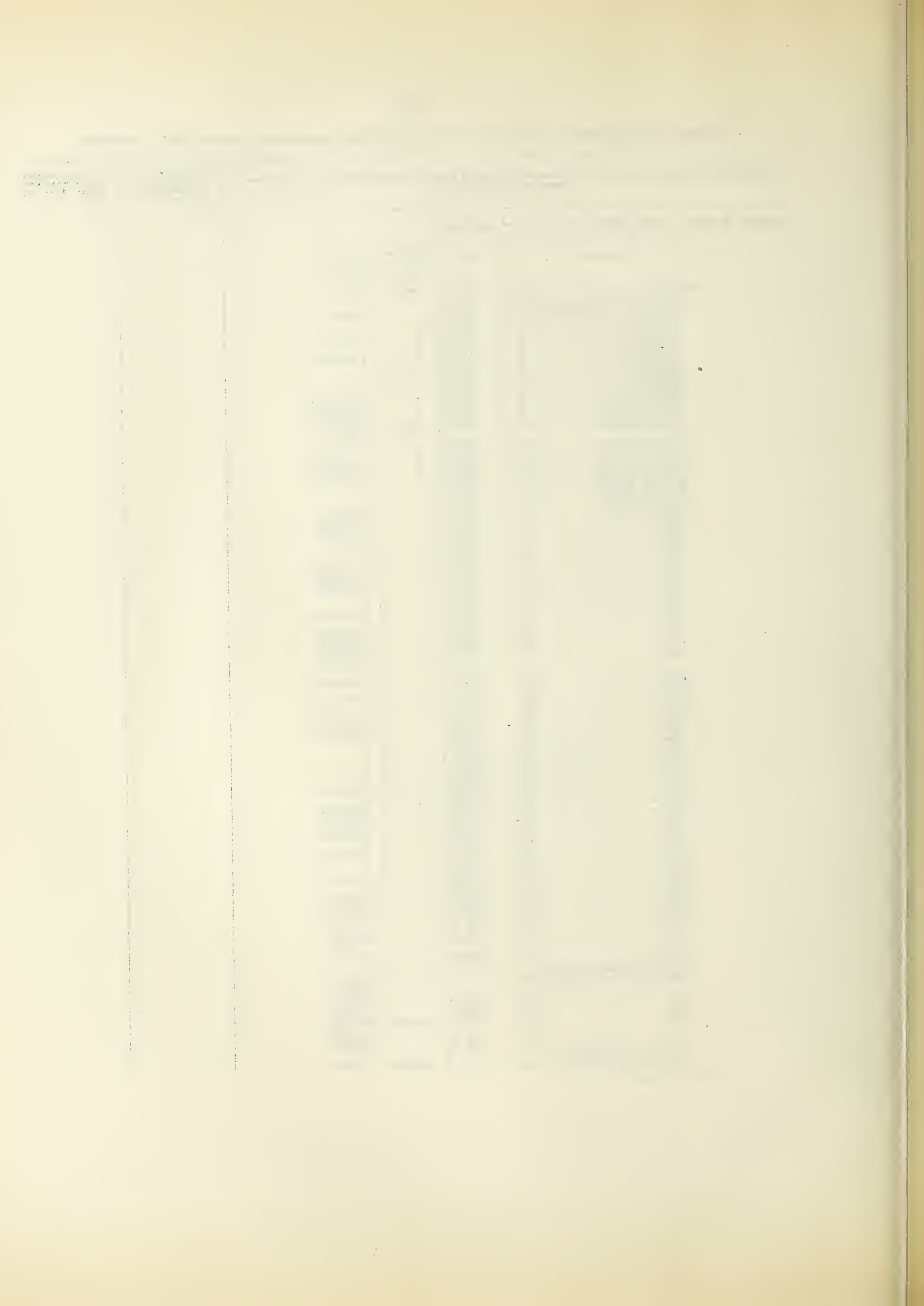
NOTE.—There is a decrease in this item of \$35,560, due to transfers to the statutory roll of this bureau aggregating \$34,480 and the transfer of 1 fireman at \$1,080 to the statutory roll of the Office of the Secretary.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                          | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|--------------------------|---|---|
| <i>General Expenses, States Relations Service—Continued.</i>  |            |                  |                          |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.          |   |   |
| Salaries:   |            | Number.          | Number.                  |   |   |
| Agriculturist and chief.....per annum..   | \$4,000.00 | 1                | 1                        |   |   |
| Agriculturist and assistant chief.....do....  | 3,600.00   | 1                | 1                        |   |   |
| Agriculturist and assistant chief.....do....  | 3,540.00   | ..               | 1 (temp.)                |   |   |
| Agriculturists.....do....   | 3,300.00   | 2                | 2                        |   |   |
| Agriculturist.....do....  | 3,240.00   | 1                | ..                       |   |   |
| Agriculturist.....do....  | 3,000.00   | 1                | 1 (temp.)                |   |   |
| Agriculturist.....do....  | 2,760.00   | 1                | 1                        |   |   |
| Agriculturists.....do....   | 2,700.00   | 3                | 3 (2 pt. time)           |   |   |
| Agriculturist.....do....  | 2,580.00   | 1                | 1                        |   |   |
| Agriculturist.....do....  | 2,520.00   | 1                | 1                        |   |   |
| Agriculturist.....do....  | 2,500.00   | 1 (new)          | ..                       |   |   |
| Agriculturist.....do....  | 2,400.00   | 1                | 1                        |   |   |
| Extension specialist.....do....   | 3,240.00   | ..               | 1 (part time)            |   |   |
| Extension specialists.....do....  | 3,000.00   | 3                | 3 (1 pt. time)           |   |   |
| Extension specialist.....do....   | 2,940.00   | 1                | 1 (part time)            |   |   |
| Extension specialists.....do....  | 2,760.00   | 1 (part time)    | 2 (1 pt. time; 1 temp.)  |   |   |
| Extension specialist.....do....   | 2,520.00   | ..               | 1 (temp.)                |   |   |
| Extension specialist.....do....   | 2,400.00   | 1                | ..                       |   |   |
| Extension specialists.....do....  | 2,280.00   | 2                | 1 (part time)            |   |   |
| Extension specialists.....do....  | 2,220.00   | 1                | 2 (1 pt. time)           |   |   |
| Extension specialist.....do....   | 2,100.00   | 1                | 1 (part time)            |   |   |
| Extension specialist.....do....   | 2,040.00   | 1                | ..                       |   |   |
| Extension specialist.....do....   | 1,800.00   | ..               | 1                        |   |   |
| Scientific assistant.....do....   | 2,160.00   | 1                | 1                        |   |   |
| Scientific assistants.....do....  | 1,800.00   | ..               | 2 (temp.)                |   |   |
| Scientific assistant.....do....   | 1,620.00   | ..               | 1 (part time)            |   |   |
| Agent.....do....  | 2,880.00   | ..               | 1 (part time)            |   |   |
| Agent.....do....  | 2,760.00   | ..               | 1 (part time)            |   |   |
| Agent.....do....  | 2,700.00   | ..               | 1                        |   |   |
| Agent.....do....  | 2,496.00   | ..               | 1                        |   |   |
| Agent.....do....  | 2,460.00   | ..               | 1 (part time)            |   |   |
| Agent.....do....  | 2,400.00   | ..               | 1 (part time)            |   |   |
| Agent.....do....  | 2,304.00   | ..               | 1 (part time)            |   |   |
| Agents.....do....   | 2,220.00   | ..               | 2 (part time)            |   |   |
| Agents.....do....   | 2,208.00   | ..               | 2                        |   |   |
| Agents.....do....   | 2,105.00   | ..               | 2                        |   |   |
| Agents.....do....   | 2,100.00   | ..               | 5 (4 pt. time)           |   |   |
| Agent.....do....  | 2,004.00   | ..               | 1                        |   |   |
| Agents.....do....   | 2,000.00   | ..               | 3 (2 pt. time)           |   |   |
| Agents.....do....   | 1,980.00   | ..               | 3 (2 pt. time)           |   |   |
| Agents.....do....   | 1,860.00   | ..               | 2 (part time)            |   |   |
| Agents.....do....   | 1,800.00   | ..               | 51 (38 part time)        |   |   |
| Agent.....do....  | 1,750.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,740.00   | ..               | 2 (1 pt. time)           |   |   |
| Agent.....do....  | 1,720.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,704.00   | ..               | 2 (part time)            |   |   |
| Agent.....do....  | 1,700.00   | ..               | 1                        |   |   |
| Agent.....do....  | 1,692.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,680.00   | ..               | 8 (part time)            |   |   |
| Agents.....do....   | 1,650.00   | ..               | 3 (pt. time)             |   |   |
| Agents.....do....   | 1,620.00   | ..               | 12                       |   |   |
| Agents.....do....   | 1,608.00   | ..               | 3                        |   |   |
| Agents.....do....   | 1,600.00   | ..               | 4                        |   |   |
| Agent.....do....  | 1,596.00   | ..               | 1                        |   |   |
| Agent.....do....  | 1,560.00   | ..               | 1                        |   |   |
| Agent.....do....  | 1,524.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,500.00   | 86               | 32 (24 pt. time)         |   |   |
| Agents.....do....   | 1,430.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,404.00   | ..               | 5 (3 pt. time)           |   |   |
| Agents.....do....   | 1,400.00   | ..               | 5 (4 pt. time)           |   |   |
| Agents.....do....   | 1,320.00   | ..               | 2 (pt. time)             |   |   |
| Agent.....do....  | 1,304.00   | ..               | 1 (pt. time)             |   |   |
| Agents.....do....   | 1,300.00   | ..               | 4                        |   |   |
| Agents.....do....   | 1,272.00   | ..               | 3 (1 pt. time)           |   |   |
| Agent.....do....  | 1,260.00   | ..               | 1                        |   |   |
| Agent.....do....  | 1,250.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,200.00   | 86               | 113 (85 pt. time)        |   |   |
| Agent.....do....  | 1,176.00   | ..               | 1                        |   |   |
| Agent.....do....  | 1,150.00   | ..               | 1 (pt. time)             |   |   |
| Agents.....do....   | 1,100.00   | ..               | 3 (1 pt. time)           |   |   |
| Agents.....do....   | 1,080.00   | ..               | 33 (21 pt. time)         |   |   |
| Agent.....do....  | 1,060.00   | ..               | 1                        |   |   |
| Agents.....do....   | 1,020.00   | ..               | 4 (3 pt. time)           |   |   |
| Agents.....do....   | 1,008.00   | ..               | 18 (14 part time)        |   |   |
| Agent.....do....  | 1,004.00   | ..               | 1 (pt. time)             |   |   |
| Agents.....do....   | 1,000.00   | ..               | 3                        |   |   |
| Agriculturists, scientific assistants, agents, and collaborators—\$936 to \$1. do....   |            | 2,292            | 449 (425 part time)      |   |   |
| Clerks.....do....   | 1,600.00   | ..               | 5 (4 temp.)              |   |   |
| Clerk.....do....  | 1,500.00   | ..               | 1 (temp.)                |   |   |
| Clerk.....do....  | 1,400.00   | ..               | 1 (pt. time)             |   |   |
| Clerks.....do....   | 1,200.00   | 6 (temp.)        | 13 (6 pt. time; 6 temp.) |   |   |
| Clerk.....do....  | 1,100.00   | 1                | 1 (pt. time)             |   |   |
| Clerks.....do....   | 1,000.00   | ..               | 7 (temp.)                |   |   |
| Watchmen, messenger boys, and charwomen—\$720 to \$240.....do....   |            | 3 (temp.)        | 1 (temp.)                |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, States Relations Service—Continued.*

| Employees.  | Rate.    | Estimated,<br>1921. | Expended,<br>1919. |
|---|----------|---------------------|--------------------|
| Wages:  |          | Number.             | Number.            |
| Laborer.....per annum..   | \$720.00 | ..                  | 1 (temp.)          |
| Miscellaneous temporary labor—<br>\$5.25 to \$3.36.....per diem.. |          | 4                   | 1                  |
|   |          | 2,504               | 862                |
| Salaries.....   |          | \$611,275.00        | \$456,566.54       |
| Wages.....  |          | 1,500.00            | 1,418.96           |
| Other objects of expenditure:                                     |          |                     |                    |
| Stationery.....   |          | 35,000.00           | 1,335.12           |
| Traveling expenses.....   |          | 42,600.00           | 56,621.66          |
| Equipment and material.....                                       |          | 17,345.00           | 2,220.51           |
| Miscellaneous items.....  |          | 8,000.00            | 12,522.07          |
| Total.....  |          | 715,720.00          | 530,634.86         |

- (38) For farmers' cooperative demonstrations and for the study and demonstration of the best methods of meeting the ravages of the cotton-boll weevil, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses, **[\$645,040]** \$634,800; *Provided*, That the expense of such service shall be defrayed from this appropriation and such cooperative funds as may be voluntarily contributed by State, county, and municipal agencies, associations of farmers, and individual farmers, universities, colleges, boards of trade, chambers of commerce, other local associations of business men, business organizations, and individuals within the State (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1*)..... \$634,800.00

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1911..... | \$250,155 | Estimate for 1912..... | \$278,055 |
| Appropriation for 1912..... | 359,000   | Estimate for 1913..... | 332,960   |
| Appropriation for 1913..... | 332,960   | Estimate for 1914..... | 407,960   |
| Appropriation for 1914..... | 375,000   | Estimate for 1915..... | 378,240   |
| Appropriation for 1915..... | 673,240   | Estimate for 1916..... | 666,020   |
| Appropriation for 1916..... | 666,020   | Estimate for 1917..... | 661,300   |
| Appropriation for 1917..... | 661,300   | Estimate for 1918..... | 659,550   |
| Appropriation for 1918..... | 659,560   | Estimate for 1919..... | 650,140   |
| Appropriation for 1919..... | 650,140   | Estimate for 1920..... | 645,040   |
| Appropriation for 1920..... | 645,040   | Estimate for 1921..... | 634,800   |

NOTE.—There is a decrease in the above item of \$10,240, due to transfers to the statutory roll.

| Employees.                                 | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| Salaries:                                  |            | Number.             | Number.            |
| Agriculturist and chief...per annum..      | \$4,260.00 | 1                   | 1                  |
| Agriculturist and assistant chief...do.... | 3,750.00   | 1 (pt. time)        | 1 (pt. time)       |
| Agriculturist.....do....                   | 3,250.00   | 1                   | 1 (pt. time)       |
| Agriculturists.....do....                  | 3,000.00   | 5 (pt. time)        | 5 (pt. time)       |
| Agriculturist.....do....                   | 2,700.00   | 1                   | 1 (pt. time)       |
| Extension specialists.....do....           | 2,580.00   | 2                   | 2 (pt. time)       |
| Extension specialist.....do....            | 2,400.00   | ..                  | 1 (temp.)          |
| Extension specialist.....do....            | 2,300.00   | ..                  | 1 (pt. time)       |
| Extension specialists.....do....           | 2,220.00   | 2                   | 2 (pt. time)       |
| Extension specialist.....do....            | 2,040.00   | 1                   | ..                 |
| Extension specialist.....do....            | 1,800.00   | ..                  | 1 (temp.)          |
| Scientific assistant.....do....            | 2,160.00   | 1                   | 1 (pt. time)       |
| Agent.....do....                           | 2,520.00   | ..                  | 1                  |
| Agents.....do....                          | 2,400.00   | ..                  | 3 (pt. time)       |
| Agents.....do....                          | 2,200.00   | ..                  | 1 (pt. time)       |
| Agents.....do....                          | 2,100.00   | ..                  | 3 (1 pt. time)     |
| Agent.....do....                           | 2,080.00   | ..                  | 1 (pt. time)       |
| Agents.....do....                          | 2,040.00   | ..                  | 2 (pt. time)       |
| Agents.....do....                          | 2,004.00   | ..                  | 2 (pt. time)       |
| Agent.....do....                           | 2,000.00   | ..                  | 1 (pt. time)       |
| Agents.....do....                          | 1,980.00   | ..                  | 3 (pt. time)       |
| Agent.....do....                           | 1,920.00   | ..                  | 1 (pt. time)       |
| Agents.....do....                          | 1,800.00   | ..                  | 9 (6 pt. time)     |

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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, States Relations Service—Continued.*

| Employees.  | Rate.      | Estimated,<br>1921. | Estimated,<br>1919.     |
|---|------------|---------------------|-------------------------|
| Salaries—Continued.   |            | <i>Number.</i>      | <i>Number.</i>          |
| Agent.....per annum..   | \$1,750.00 | ..                  | 1 (pt. time)            |
| Agents.....do.....  | 1,704.00   | ..                  | 2                       |
| Agent.....do.....   | 1,680.00   | ..                  | 1                       |
| Agents.....do.....  | 1,620.00   | ..                  | 2 (1 pt. time)          |
| Agent.....do.....   | 1,596.00   | ..                  | 1 (pt. time)            |
| Agents.....do.....  | 1,500.00   | ..                  | 10 (9 pt. time)         |
| Agents.....do.....  | 1,440.00   | ..                  | 2 (pt. time)            |
| Agents.....do.....  | 1,404.00   | ..                  | 14 (13 part time)       |
| Agent.....do.....   | 1,380.00   | ..                  | 1                       |
| Agents.....do.....  | 1,320.00   | ..                  | 7 (6 pt. time)          |
| Agent.....do.....   | 1,300.00   | ..                  | 1                       |
| Agents.....do.....  | 1,260.00   | ..                  | 4 (pt. time)            |
| Agent.....do.....   | 1,224.00   | ..                  | 1 (pt. time)            |
| Agent.....do.....   | 1,212.00   | ..                  | 1 (pt. time)            |
| Agents.....do.....  | 1,200.00   | 73                  | 43 (40 part time)       |
| Agent.....do.....   | 1,152.00   | ..                  | 1 (pt. time)            |
| Agent.....do.....   | 1,110.00   | ..                  | 1 (pt. time)            |
| Agents.....do.....  | 1,104.00   | ..                  | 2 (pt. time)            |
| Agents.....do.....  | 1,080.00   | ..                  | 20 (7 pt. time)         |
| Agent.....do.....   | 1,068.00   | ..                  | 1 (pt. time)            |
| Agent.....do.....   | 1,056.00   | ..                  | 1 (pt. time)            |
| Agent.....do.....   | 1,032.00   | ..                  | 1 (pt. time)            |
| Agents.....do.....  | 1,020.00   | ..                  | 6 (5 pt. time)          |
| Agents.....do.....  | 1,008.00   | ..                  | 7 (5 pt. time)          |
| Agents, collaborators, and clerks, \$996 to \$1.....do.....                         |            | 2,046               | 848 (530 pt. time)      |
| Clerk.....do.....   | 1,980.00   | ..                  | 1 (pt. time)            |
| Clerk.....do.....   | 1,690.00   | ..                  | 1 (pt. time)            |
| Clerks.....do.....  | 1,290.00   | 4 (temp.)           | 5 (3 pt. time; 2 temp.) |
| Clerks.....do.....  | 1,000.00   | ..                  | 7 (1 pt. time; 6 temp.) |
| Clerks, machine operators, messenger boys and charwomen, \$900 to \$240.....do..... |            | 4 (temp.)           | 6 (temp.)               |
| Wages:  |            |                     |                         |
| Laborer.....do.....   | 720.00     | ..                  | 1 (temp.)               |
| Tinner.....do.....  | 1,020.00   | ..                  | 1 (temp.)               |
| Engineer.....do.....  | 1,100.00   | ..                  | 1                       |
| Miscellaneous temporary labor, \$5.25 to \$3.36.....per diem.....                   |            | 3                   | ..                      |
|   |            | 2,145               | 1,046                   |
| Salaries.....   |            | \$585,375.00        | \$456,544.49            |
| Wages.....  |            | 1,500.00            | 1,475.00                |
| Other objects of expenditure:   |            |                     |                         |
| Stationery.....   |            | 3,600.00            | 3,160.41                |
| Traveling expenses.....   |            | 33,650.00           | 176,780.00              |
| Equipment and material.....   |            | 7,400.00            | 853.93                  |
| Miscellaneous items.....  |            | 3,275.00            | 5,675.55                |
| Total.....  |            | 634,800.00          | 644,494.38              |

- (39) For cooperative agricultural extension work, to be allotted, paid and expended in the same manner, upon the same terms and conditions, and under the same supervision as the additional appropriations made by the act of May 8, 1914 (Thirty-eighth Statutes at Large, p. 372), entitled "An act to provide for cooperative agricultural extension work between the agricultural colleges in the several States receiving the benefits of an act of Congress approved July 2, 1862, and of acts supplementary thereto, and the United States Department of Agriculture," \$1,500,000; and all sums appropriated by this act for use for demonstration or extension work within any State shall be used and expended in accordance with plans mutually agreed upon by the Secretary of Agriculture and the proper officials of the college in such State which receives the benefits of said act of May 8, 1914 (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1*) -- \$1,500,000.00

Appropriation for 1920..... \$1,500,000 | Estimate for 1921..... \$1,500,000





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
|--|---|---|--------------------|-------|---------------------|--------------------|-----------|--|----------------|----------------|-----------------------------|------------|---|---|------------------------|----------|----|-----------|---------------------------|------|-----------|-----------|--------------------------------------|----------|----|--------------|----------------------------------|----------|----|--------------|----------------------------------|----------|---|---|----------------------------------|----------|--------------|--------------|-------------------|----------|----|-----------|--------------------|----------|-----------|----|--------------------|----------|----|----------------|---|----|-----------|-------------|--------|--|--|--|-------------------------|------|----|-----------|--|--|----|----|---------------|--|-------------|-------------|------------|--|--|--------|-------------------------------|--|--|--|-----------------|--|--------|--------|-------------------------|--|----------|----------|-----------------------------|--|--------|--------|--------------------------|--|----------|----------|------------|--|-----------|-----------|
| <i>General Expenses, States Relations Service—Continued.</i>   |   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| (40) To enable the Secretary of Agriculture to investigate and report upon the organization and progress of farmers' institutes and agricultural schools in the several States and Territories, and upon similar organizations in foreign countries, with special suggestions of plans and methods for making such organizations more effective for the dissemination of the results of the work of the Department of Agriculture and the agricultural experiment stations, and of improved methods of agricultural practice, including the employment of labor in the city of Washington and elsewhere, and all other necessary expenses <b>["\$20,600"]</b> ( <i>acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1</i> ) -----   | \$16,360.00   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1911..... \$10,000   | Estimate for 1912..... \$20,000                                   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1912..... 10,000   | Estimate for 1913..... 15,760                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1913..... 15,760   | Estimate for 1914..... 23,000                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1914..... 23,000   | Estimate for 1915..... 23,000                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1915..... 23,000   | Estimate for 1916..... 20,600                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1916..... 20,600   | Estimate for 1917..... 20,600                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1917..... 20,600   | Estimate for 1918..... 20,600                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1918..... 20,600   | Estimate for 1919..... 20,600                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1919..... 20,600   | Estimate for 1920..... 20,600                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Appropriation for 1920..... 20,600   | Estimate for 1921..... 16,360                                     |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| NOTE.—There is a decrease in the above item of \$4,240, due to transfers to the statutory roll of this bureau aggregating \$3,040, and the transfer of 1 clerk of class 1 to the statutory roll of the Division of Publications.   |   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Specialists.....per annum..</td><td>\$2,400.00</td><td>4</td><td>3</td></tr><tr><td>Specialist.....do.....</td><td>2,000.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Specialist.....per diem..</td><td>8.50</td><td>1 (temp.)</td><td>1 (temp.)</td></tr><tr><td>Scientific assistant.....per annum..</td><td>2,220.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,920.00</td><td>..</td><td>1 (pt. time)</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do.....</td><td>1,500.00</td><td>1 (pt. time)</td><td>1 (pt. time)</td></tr><tr><td>Clerk.....do.....</td><td>1,320.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Clerks.....do.....</td><td>1,200.00</td><td>2 (temp.)</td><td>..</td></tr><tr><td>Clerks.....do.....</td><td>1,100.00</td><td>..</td><td>2 (1 pt. time)</td></tr><tr><td>Map colorist, watchmen, messenger boys, and collaborators, \$900 to \$1.....do.....</td><td>..</td><td>3 (temp.)</td><td>8 (5 temp.)</td></tr><tr><td>Wages:</td><td></td><td></td><td></td></tr><tr><td>Laborers.....per diem..</td><td>4.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td></td><td></td><td>12</td><td>22</td></tr><tr><td>Salaries.....</td><td></td><td>\$12,810.00</td><td>\$14,362.19</td></tr><tr><td>Wages.....</td><td></td><td></td><td>240.00</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Stationery.....</td><td></td><td>350.00</td><td>313.28</td></tr><tr><td>Traveling expenses.....</td><td></td><td>1,500.00</td><td>2,232.04</td></tr><tr><td>Equipment and material.....</td><td></td><td>350.00</td><td>325.79</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>1,350.00</td><td>1,494.92</td></tr><tr><td>Total.....</td><td></td><td>16,360.00</td><td>18,968.22</td></tr></table> |   |   | Employees.         | Rate. | Estimated,<br>1921. | Expended,<br>1919. | Salaries: |  | <i>Number.</i> | <i>Number.</i> | Specialists.....per annum.. | \$2,400.00 | 4 | 3 | Specialist.....do..... | 2,000.00 | .. | 1 (temp.) | Specialist.....per diem.. | 8.50 | 1 (temp.) | 1 (temp.) | Scientific assistant.....per annum.. | 2,220.00 | .. | 1 (pt. time) | Scientific assistant.....do..... | 1,920.00 | .. | 1 (pt. time) | Scientific assistant.....do..... | 1,800.00 | 1 | 1 | Scientific assistant.....do..... | 1,500.00 | 1 (pt. time) | 1 (pt. time) | Clerk.....do..... | 1,320.00 | .. | 1 (temp.) | Clerks.....do..... | 1,200.00 | 2 (temp.) | .. | Clerks.....do..... | 1,100.00 | .. | 2 (1 pt. time) | Map colorist, watchmen, messenger boys, and collaborators, \$900 to \$1.....do..... | .. | 3 (temp.) | 8 (5 temp.) | Wages: |  |  |  | Laborers.....per diem.. | 4.00 | .. | 2 (temp.) |  |  | 12 | 22 | Salaries..... |  | \$12,810.00 | \$14,362.19 | Wages..... |  |  | 240.00 | Other objects of expenditure: |  |  |  | Stationery..... |  | 350.00 | 313.28 | Traveling expenses..... |  | 1,500.00 | 2,232.04 | Equipment and material..... |  | 350.00 | 325.79 | Miscellaneous items..... |  | 1,350.00 | 1,494.92 | Total..... |  | 16,360.00 | 18,968.22 |
| Employees.   | Rate.   | Estimated,<br>1921.   | Expended,<br>1919. |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Salaries:  |   | <i>Number.</i>  | <i>Number.</i>     |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Specialists.....per annum..  | \$2,400.00  | 4   | 3                  |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Specialist.....do.....   | 2,000.00  | ..  | 1 (temp.)          |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Specialist.....per diem..  | 8.50  | 1 (temp.)   | 1 (temp.)          |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Scientific assistant.....per annum..   | 2,220.00  | ..  | 1 (pt. time)       |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Scientific assistant.....do.....   | 1,920.00  | ..  | 1 (pt. time)       |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Scientific assistant.....do.....   | 1,800.00  | 1   | 1                  |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Scientific assistant.....do.....   | 1,500.00  | 1 (pt. time)  | 1 (pt. time)       |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Clerk.....do.....  | 1,320.00  | ..  | 1 (temp.)          |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Clerks.....do.....   | 1,200.00  | 2 (temp.)   | ..                 |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Clerks.....do.....   | 1,100.00  | ..  | 2 (1 pt. time)     |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Map colorist, watchmen, messenger boys, and collaborators, \$900 to \$1.....do.....  | ..  | 3 (temp.)   | 8 (5 temp.)        |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Wages:   |   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Laborers.....per diem..  | 4.00  | ..  | 2 (temp.)          |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
|  |   | 12  | 22                 |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Salaries.....  |   | \$12,810.00   | \$14,362.19        |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Wages.....   |   |   | 240.00             |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Other objects of expenditure:  |   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Stationery.....  |   | 350.00  | 313.28             |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Traveling expenses.....  |   | 1,500.00  | 2,232.04           |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Equipment and material.....  |   | 350.00  | 325.79             |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Miscellaneous items.....   |   | 1,350.00  | 1,494.92           |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| Total.....   |   | 16,360.00   | 18,968.22          |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |
| (41) To enable the Secretary of Agriculture to establish and maintain agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States, including the erection of buildings, the preparation, illustration, and distribution of reports and bulletins, and all other necessary expenses, <b>["\$215,000"]</b> \$230,000, as follows: Alaska, <b>["\$75,000"]</b> \$90,000 [of which \$10,000, or so much thereof as may be necessary, shall be immediately available for the erection of barns, purchase of breeding live stock, and other expenses connected with the stock-breeding experiments on the island of Kodiak and at the Matanuska station]; Hawaii, \$50,000; Porto Rico, \$50,000; Guam, <b>["\$25,000"]</b> \$20,000 [of which \$5,000, or so much thereof as may be necessary,  |   |   |                    |       |                     |                    |           |  |                |                |                             |            |   |   |                        |          |    |           |                           |      |           |           |                                      |          |    |              |                                  |          |    |              |                                  |          |   |   |                                  |          |              |              |                   |          |    |           |                    |          |           |    |                    |          |    |                |   |    |           |             |        |  |  |  |                         |      |    |           |  |  |    |    |               |  |             |             |            |  |  |        |                               |  |  |  |                 |  |        |        |                         |  |          |          |                             |  |        |        |                          |  |          |          |            |  |           |           |

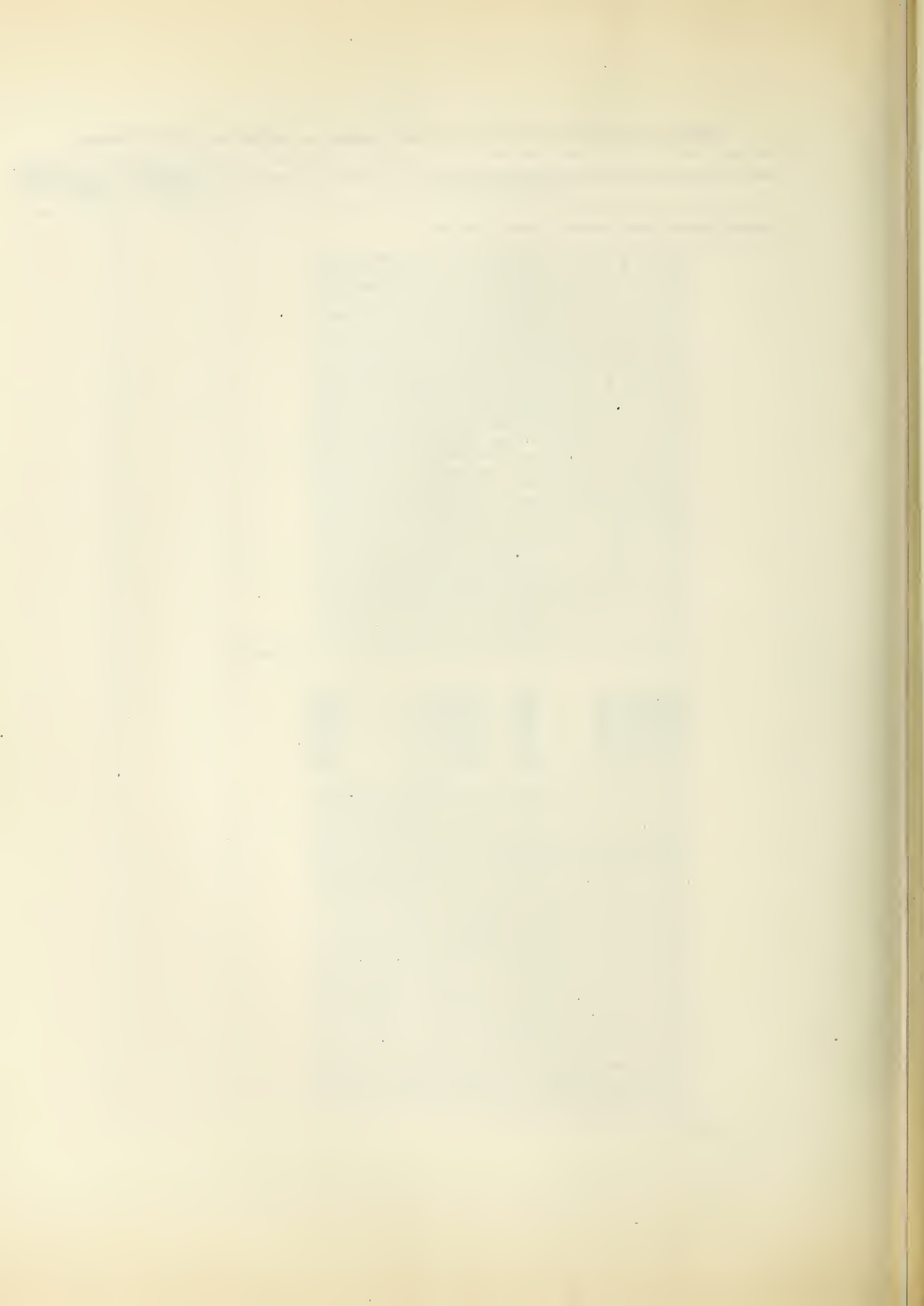




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation.   | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>General Expenses, States Relations Service—Continued.</i>  |   |   |
| <p>shall be immediately available to repair damage due to typhoon]; and the Virgin Islands of the United States, [\$15,000] \$20,000; and the Secretary of Agriculture is authorized to sell such products as are obtained on the land belonging to the agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States: <i>Provided</i>, That of the sum herein appropriated for the experiment station in Hawaii \$10,000 may be used in agricultural extension work in Hawaii [; <i>Provided further</i>, That hereafter employees of the Department of Agriculture assigned to permanent duty in the Virgin Islands shall be entitled to the same privileges as to leave of absence as are conferred upon employees assigned to Alaska, Hawaii, Porto Rico, and Guam by the Act of June 30, 1914 (Thirty-eighth Statutes at Large, page 441), and if any employee of the agricultural experiment stations of the United States in Alaska, Hawaii, Porto Rico, Guam, or the Virgin Islands shall elect to postpone the taking of any or all of the annual leave to which he may be entitled under the said Act of June 30, 1914, he may, in the discretion of the Secretary of Agriculture, subject to the interests of the public service, be allowed to take at one time unused annual leave which may have accumulated within not to exceed four years, and be paid at the rate prevailing during the year such leave of absence has accumulated] (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1) --\$230, 000. 00)</p>   |   |   |
| <p>Appropriation for 1911..... \$99,000<br/> Appropriation for 1912..... 105,000<br/> Appropriation for 1913..... 105,000<br/> Appropriation for 1914..... 110,000<br/> Appropriation for 1915..... 120,000<br/> Appropriation for 1916..... 120,000<br/> Appropriation for 1917..... 143,000<br/> Appropriation for 1918..... 155,000<br/> Appropriation for 1919..... 190,000<br/> Appropriation for 1920..... 215,000</p>  | <p>Estimate for 1912..... \$105,000<br/> Estimate for 1913..... 105,000<br/> Estimate for 1914..... 110,000<br/> Estimate for 1915..... 115,000<br/> Estimate for 1916..... 120,000<br/> Estimate for 1917..... 155,000<br/> Estimate for 1918..... 173,000<br/> Estimate for 1919..... 190,000<br/> Estimate for 1920..... 215,000<br/> Estimate for 1921..... 230,000</p> |   |
| <p>NOTE.—There is an increase in this item of \$15,000, which sum is needed for enlarging the facilities of the Alaska stations for conducting investigations in live stock and crop production. This amount will provide for the erection of a barn and cottage at the Fairbanks station, an additional cottage at the Rampart station, two concrete silos at the Kodiak station, and for the employment of additional assistants at the Rampart and Matanuska stations and a horticulturist and plant breeder at the Sitka station. Of the total increase requested, it is estimated that \$11,200 will be required for the erection of the structures mentioned. This amount will be very largely used in the purchase and shipment of materials, as the construction work will be done mostly by the regular employees during times when other work is not pressing, practically all the buildings at the Alaska stations having been erected in this way.</p> <p>It is proposed to decrease the subitem for the Guam station from \$25,000 to \$20,000 and to increase the subitem for the Virgin Islands from \$15,000 to \$20,000. The current appropriation act provides \$5,000 for use at Guam in repairing the damage caused by a typhoon. This sum will be expended during the present year, and the appropriation for the Guam station may be reduced accordingly. An increase of \$5,000 is requested for the Virgin Islands station in order to provide for the employment of a chemist and an extension agent. The present superintendent of the station, in addition to the administrative work, has charge of all the investigations in agronomy and animal husbandry and does some chemical work. Projects on sugar cane, soils, and fertilizer are contemplated, and the services of a chemist are essential in connection therewith. The experiment station is located on the island of St. Croix, and as the islands of St. Thomas and St. John have considerable agricultural, horticultural, and stock-raising possibilities, it is desired to employ a capable man to conduct demonstrations on each of these islands and to act as an extension agent for all the islands of the group.</p> |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, States Relations Service—Continued.*

The immediately available clauses in the Alaska and Guam subitems of the current appropriation act are omitted as a continuation of the authority is unnecessary.

The proviso granting leave of absence privileges to employees assigned to permanent duty in the Virgin Islands and allowing accumulative leave to employees of the insular experiment stations has also been omitted as it is permanent legislation.

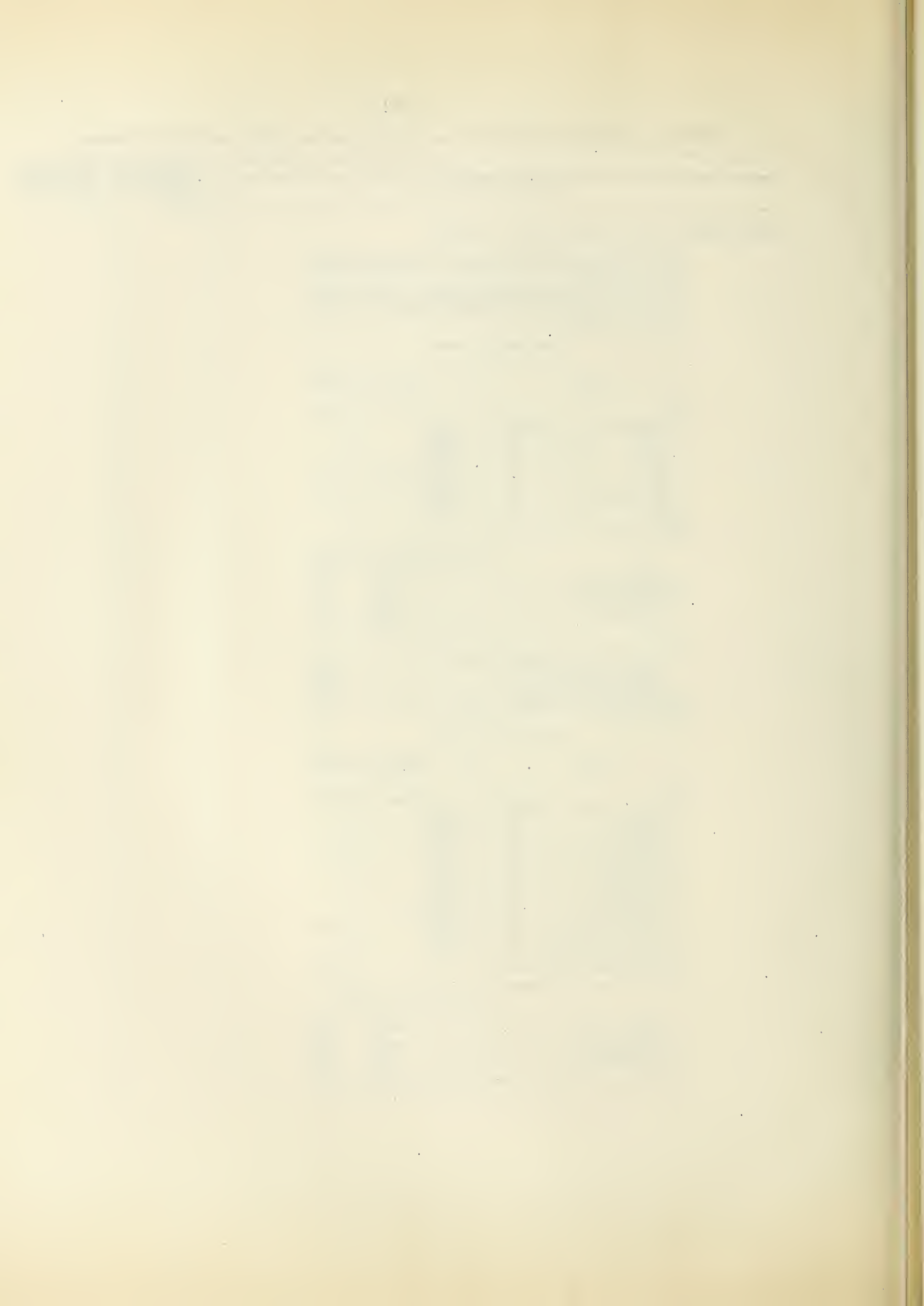
*Alaska experiment station.*

| Employees.                                  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
| <b>Salaries:</b>                            |            | <i>Number.</i>      | <i>Number.</i>     |
| Agronomist in charge.....per annum..        | \$3,720.00 | 1                   | ..                 |
| Agronomist in charge.....do.....            | 3,500.00   | ..                  | 1                  |
| Agents.....do.....                          | 3,000.00   | 2                   | ..                 |
| Agents.....do.....                          | 2,820.00   | 1                   | 2                  |
| Agent.....do.....                           | 2,500.00   | 1                   | 1                  |
| Agents.....do.....                          | 2,280.00   | ..                  | 2 (1 temp.)        |
| Agents.....do.....                          | 2,000.00   | 3 (1 new)           | 1                  |
| Agents.....do.....                          | 1,800.00   | 2 (1 new)           | ..                 |
| Agent.....do.....                           | 1,500.00   | 1 (new)             | ..                 |
| Veterinary inspector.....do.....            | 1,500.00   | ..                  | 1 (temp.)          |
| Clerk.....do.....                           | 1,800.00   | 1                   | ..                 |
| Clerk.....do.....                           | 1,500.00   | ..                  | 1                  |
| <b>Wages:</b>                               |            |                     |                    |
| Temporary laborers, \$8 to \$2...per diem.. |            | 40                  | 35                 |
|   |            | 52                  | 44                 |
| Salaries.....                               |            | \$27,940.00         | \$17,334.30        |
| Wages.....                                  |            | 30,000.00           | 24,722.78          |
| <b>Other objects of expenditure:</b>        |            |                     |                    |
| Traveling expenses.....                     |            | 3,500.00            | 1,318.81           |
| Equipment and material.....                 |            | 10,000.00           | 13,774.82          |
| Miscellaneous items.....                    |            | 6,760.00            | 7,849.29           |
| Construction work.....                      |            | 11,800.00           | ..                 |
| <b>Total.....</b>                           |            | <b>90,000.00</b>    | <b>65,000.00</b>   |

<sup>1</sup> This construction work will consist of the following buildings:  
 1 barn and grain storage building at Fairbanks..... \$4,500.00  
 1 cottage for superintendent at Fairbanks..... 3,500.00  
 1 cottage for assistant at Rampart..... 3,000.00  
 2 concrete silos at Kodiak, \$400 each..... 800.00  
 These estimates are largely for materials: the work will be done mostly by regular employees during times when other work is not pressing.

*Hawaii experiment station.*

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
| <b>Salaries:</b>  |            | <i>Number.</i>      | <i>Number.</i>     |
| Agronomist in charge.....per annum..                                  | \$3,720.00 | 1                   | ..                 |
| Agronomist in charge.....do.....                                      | 3,500.00   | ..                  | 1                  |
| Horticulturist.....do.....  | 2,520.00   | 1                   | ..                 |
| Horticulturist.....do.....  | 2,400.00   | ..                  | 1                  |
| Chemist.....do.....   | 2,400.00   | ..                  | 1 (temp.)          |
| Soil fertility expert.....do.....                                     | 2,400.00   | 1                   | ..                 |
| Soil fertility expert.....do.....                                     | 2,200.00   | ..                  | 1                  |
| Directors of extension.....do.....                                    | 2,400.00   | 2                   | 2                  |
| Plant pathologist.....do.....   | 2,220.00   | 1                   | ..                 |
| Plant pathologist.....do.....   | 2,100.00   | ..                  | 1                  |
| Assistant chemist.....do.....   | 1,620.00   | 1                   | ..                 |
| Assistant chemist.....do.....   | 1,440.00   | ..                  | 1                  |
| Assistant agronomist.....do.....                                      | 1,620.00   | 1                   | ..                 |
| Assistant horticulturist.....do.....                                  | 1,620.00   | 1 (new)             | ..                 |
| Poultry expert.....do.....  | 1,500.00   | ..                  | 1 (temp.)          |
| Assistant in crop utilization.....do.....                             | 1,500.00   | ..                  | 1 (temp.)          |
| Administrative assistant.....do.....                                  | 1,500.00   | 1                   | 1                  |
| Clerk.....do.....   | 1,200.00   | 1                   | ..                 |
| Clerk, messengers, and collabor-<br>ators, \$900 to \$300.....do..... |            | 8                   | 8 (2 temp.)        |
| <b>Wages:</b>   |            |                     |                    |
| Temporary laborers, \$3 to \$0.75...per diem..                        |            | 25                  | 30                 |
|   |            | 44                  | 49                 |
| Salaries.....   |            | \$27,120.00         | \$18,829.09        |
| Wages.....  |            | 14,025.00           | 17,257.12          |
| <b>Other objects of expenditure:</b>                                  |            |                     |                    |
| Traveling expenses.....   |            | 3,000.00            | 1,290.44           |
| Equipment and material.....   |            | 4,325.00            | 3,811.45           |
| Miscellaneous items.....  |            | 1,530.00            | 3,811.90           |
| <b>Total.....</b>   |            | <b>50,000.00</b>    | <b>45,000.00</b>   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, States Relations Service—Continued.*

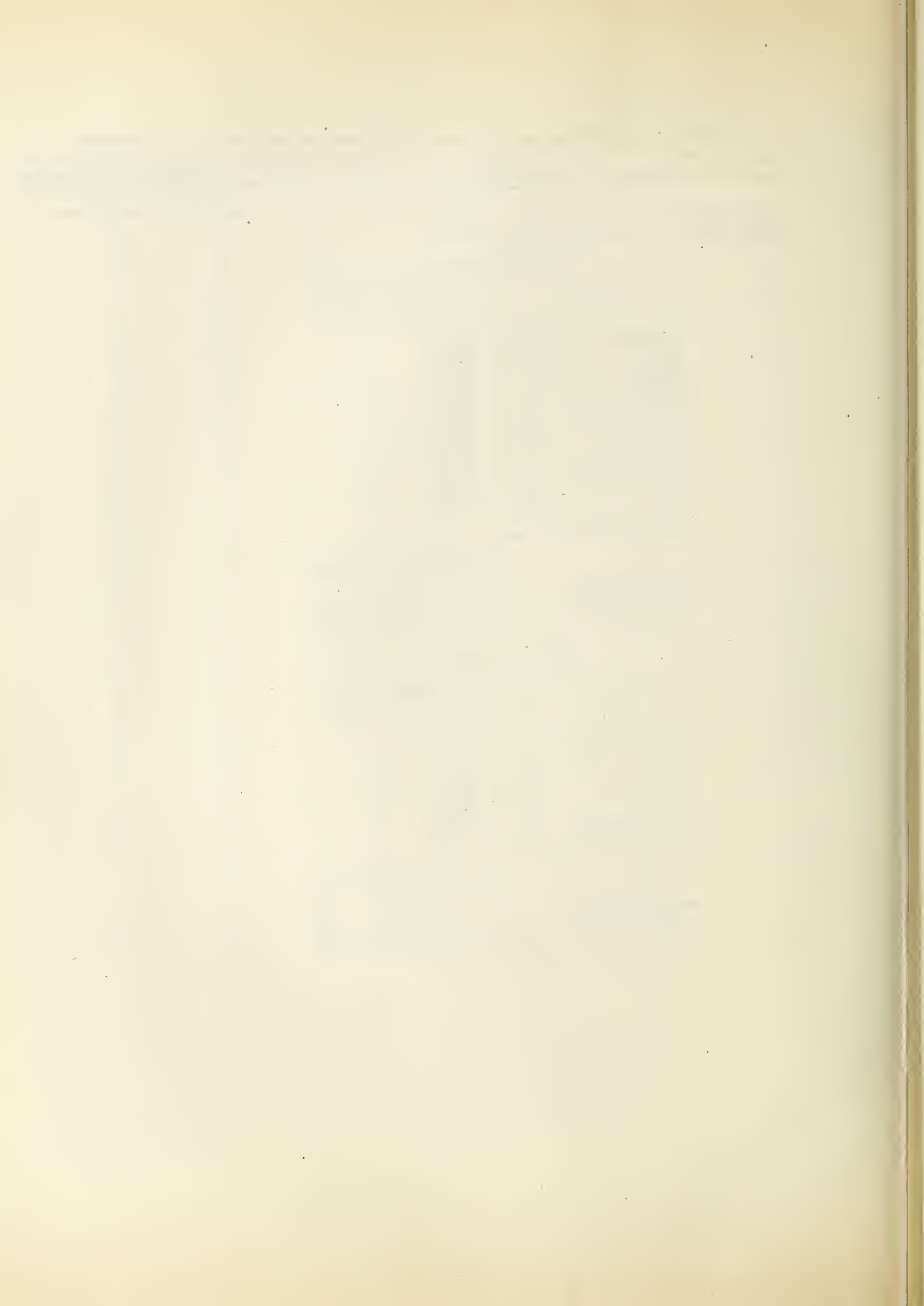
*Porto Rico experiment station.*

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
|   |            | <i>Number.</i>      | <i>Number.</i>     |
| Salaries:   |            |                     |                    |
| Agronomist in charge.....per annum..                  | \$3,720.00 | 1                   | ..                 |
| Agronomist in charge.....do.....                      | 3,500.00   | ..                  | 1                  |
| Chemist.....do.....                                   | 2,500.00   | 1                   | ..                 |
| Chemist.....do.....                                   | 2,400.00   | ..                  | 1                  |
| Entomologist.....do.....                              | 2,500.00   | 1                   | ..                 |
| Entomologist.....do.....                              | 2,400.00   | ..                  | 1                  |
| Horticulturist.....do.....                            | 2,400.00   | 1                   | ..                 |
| Horticulturist.....do.....                            | 2,100.00   | ..                  | 1                  |
| Specialist in farm management.....do.....             | 2,500.00   | 1                   | 1                  |
| Agricultural technologist.....do.....                 | 2,400.00   | 1                   | ..                 |
| Agricultural technologist.....do.....                 | 2,160.00   | ..                  | 1                  |
| Animal husbandman.....do.....                         | 2,400.00   | 1 (new)             | ..                 |
| Plant pathologist.....do.....                         | 2,400.00   | 1                   | ..                 |
| Plant breeder.....do.....                             | 2,400.00   | 1 (new)             | ..                 |
| Assistant chemist.....do.....                         | 1,800.00   | 1                   | ..                 |
| Assistant chemist.....do.....                         | 1,620.00   | ..                  | 1                  |
| Assistant horticulturist.....do.....                  | 1,800.00   | 1                   | ..                 |
| Assistant plant breeder.....do.....                   | 1,440.00   | ..                  | 1                  |
| Clerk.....do.....                                     | 1,620.00   | 1                   | ..                 |
| Clerk.....do.....                                     | 1,440.00   | ..                  | 1                  |
| Clerk.....do.....                                     | 1,200.00   | 1                   | ..                 |
| Clerk.....do.....                                     | 1,100.00   | ..                  | 1                  |
| Wages:  |            |                     |                    |
| Temporary laborers, \$2.50 to 75 cents.....per diem.. |            | 35                  | 35                 |
|   |            | 48                  | 45                 |
| Salaries.....   |            | \$29,640.00         | \$18,301.24        |
| Wages.....  |            | 10,000.00           | 11,078.10          |
| Other objects of expenditure:                         |            |                     |                    |
| Traveling expenses.....                               |            | 1,000.00            | 1,857.80           |
| Equipment and material.....                           |            | 5,500.00            | 8,061.27           |
| Miscellaneous items.....                              |            | 3,860.00            | 5,701.59           |
| Total.....  |            | 50,000.00           | 45,000.00          |

*Guam experiment station.*

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|---|------------|---------------------|--------------------|
|   |            | <i>Number.</i>      | <i>Number.</i>     |
| Salaries:   |            |                     |                    |
| Animal husbandman in charge.....per annum..           | \$3,000.00 | 1                   | ..                 |
| Animal husbandman in charge.....do.....               | 2,700.00   | ..                  | 1                  |
| Agronomist.....do.....                                | 2,280.00   | 1                   | ..                 |
| Agronomist.....do.....                                | 1,780.00   | ..                  | 1                  |
| Extension agent.....do.....                           | 2,280.00   | 1                   | ..                 |
| Extension agent.....do.....                           | 1,980.00   | ..                  | 1                  |
| Agent.....do.....                                     | 1,860.00   | 1                   | ..                 |
| Agent.....do.....                                     | 1,740.00   | ..                  | 1                  |
| Assistant in horticulture.....do.....                 | 1,080.00   | 1                   | ..                 |
| Assistant in horticulture.....do.....                 | 900.00     | ..                  | 1                  |
| Wages:  |            |                     |                    |
| Temporary laborers, \$2.50 to 50 cents.....per diem.. |            | 20                  | 18                 |
|   |            | 25                  | 23                 |
| Salaries.....   |            | \$10,500.00         | 8,178.00           |
| Wages.....  |            | 6,810.00            | 5,722.23           |
| Other objects of expenditure:                         |            |                     |                    |
| Traveling expenses.....                               |            | 250.00              | 218.00             |
| Equipment and material.....                           |            | 700.00              | 1,675.40           |
| Miscellaneous items.....                              |            | 1,740.00            | 4,206.37           |
| Total.....  |            | 20,000.00           | 20,000.00          |





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

General Expenses, States Relations Service—Continued.

Virgin Islands experiment station.

| Employees.   | Rate.      | Estimated, 1921. | Expended, 1919.         |
|--|------------|------------------|-------------------------|
| Salaries:  |            | Number.          | Number.                 |
| Agronomist in charge.....per annum..                     | \$3,000.00 | 1                | 1                       |
| Entomologist.....do.....                                 | 2,000.00   | 1                | 1                       |
| Chemist.....do.....                                      | 2,000.00   | 1 (new)          | ..                      |
| Extension agent.....do.....                              | 2,000.00   | 1 (new)          | ..                      |
| Clerk.....do.....  | 1,500.00   | 1                | ..                      |
| Wages:   |            |                  |                         |
| Temporary laborers, \$2.50 to 50 cents.....per diem..... |            | 10               | 11                      |
|  |            | 15               | 13                      |
| Salaries.....  |            | \$10,500.00      | <sup>1</sup> \$1,722.23 |
| Wages.....   |            | 3,500.00         | <sup>1</sup> 3,707.38   |
| Other objects of expenditure:                            |            |                  |                         |
| Traveling expenses.....                                  |            | 500.00           | 328.23                  |
| Equipment and material.....                              |            | 2,000.00         | 8,817.81                |
| Miscellaneous items.....                                 |            | 3,500.00         | 424.35                  |
| Total.....   |            | 20,000.00        | 15,000.00               |

<sup>1</sup> For 6 months.

(42) To enable the Secretary of Agriculture to investigate the relative utility and economy of agricultural products for food, clothing, and other uses in the home, with special suggestions of plans and methods for the more effective utilization of such products for these purposes, with the cooperation of other bureaus of the department, and to disseminate useful information on this subject, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses **[\$46,280]** (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1).....

\$74,300.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$10,000 | Estimate for 1912..... | \$15,000 |
| Appropriation for 1912..... | 15,000   | Estimate for 1913..... | 20,000   |
| Appropriation for 1913..... | 16,000   | Estimate for 1914..... | 19,000   |
| Appropriation for 1914..... | 16,000   | Estimate for 1915..... | 25,760   |
| Appropriation for 1915..... | 25,760   | Estimate for 1916..... | 26,500   |
| Appropriation for 1916..... | 26,500   | Estimate for 1917..... | 24,220   |
| Appropriation for 1917..... | 24,220   | Estimate for 1918..... | 50,000   |
| Appropriation for 1918..... | 35,000   | Estimate for 1919..... | 30,120   |
| Appropriation for 1919..... | 30,120   | Estimate for 1920..... | 76,280   |
| Appropriation for 1920..... | 46,280   | Estimate for 1921..... | 74,300   |

NOTE.—There is an apparent increase in the above item of \$28,020, but, taking into consideration transfers to the statutory roll aggregating \$1,980, the actual increase is \$30,000.

Present economic conditions have greatly increased the public interest in problems connected with food, clothing, and household equipment and management as related to the income and well-being of people in American homes. Reliable information on these subjects is comparatively limited, and this is particularly true of those problems which require scientific research as a basis for their satisfactory solution. The Office of Home Economics is working on a limited number of these problems, but its present resources are too limited to enable it to keep pace with the demands for information which come to it from many sources, including especially housekeepers, teachers, extension workers, physicians, nurses, private and State institutions concerned with the living conditions of their employees or dependents, and numerous welfare organizations, including the Red Cross. Other branches of the Government (for example, the Division of Food and Nutrition of the War Department, the Department of Labor, Bureau of Fisheries, Federal Board for Vocational Education) and other bureaus of this department also apply to it for assistance with increasing frequency. To more nearly meet the situation as it has developed, the increase requested will be necessary.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriations. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|--|---|
|---|--|---|

*General Expenses, States Relations Service—Continued.*

| Employees.   | Rate.      | Estimated, 1921. | Expended, 1919.          |
|--|------------|------------------|--------------------------|
| <b>Salaries:</b>   |            | <i>Number.</i>   | <i>Number.</i>           |
| Chief home economics expert per annum..  | \$3,500.00 | 1                | 1                        |
| Assistant chief expert.....do.....   | 3,000.00   | 1                | 1                        |
| Specialist.....do.....   | 3,000.00   | ..               | 1 (temp.)                |
| Specialists.....do.....  | 2,700.00   | 2 (new)          | ..                       |
| Specialists.....do.....  | 2,400.00   | 2 (new)          | 1 (temp.)                |
| Specialists.....do.....  | 2,220.00   | 2                | 2 (pt. time.)            |
| Specialist.....do.....   | 2,160.00   | 1                | 1                        |
| Specialists.....do.....  | 1,800.00   | 2 (1 new)        | 1 (temp.)                |
| Specialist.....do.....   | 1,620.00   | ..               | 1 (temp.)                |
| Specialist.....do.....   | 1,500.00   | ..               | 1 (pt. time)             |
| Specialists.....per diem..   | 8.00       | ..               | 2 (temp.)                |
| Scientific assistants.....per annum..  | 1,800.00   | 4 (2 new)        | 2 (1 pt. time)           |
| Scientific assistants.....do.....  | 1,620.00   | 3 (2 new)        | 1 (pt. time)             |
| Scientific assistants.....do.....  | 1,560.00   | 2                | 1 (temp.)                |
| Scientific assistant.....do.....   | 1,440.00   | 1                | ..                       |
| Scientific assistants.....do.....  | 1,320.00   | 2                | ..                       |
| Scientific assistants.....do.....  | 1,200.00   | 2 (1 new)        | 3 (1 pt. time; 1 temp.)  |
| Scientific assistant.....do.....   | 1,000.00   | ..               | 1 (temp.)                |
| Scientific assistant.....do.....   | 1,080.00   | ..               | 1 (temp.)                |
| Bibliographical assistant.....do.....  | 1,320.00   | 1                | ..                       |
| Clerk.....do.....  | 1,800.00   | ..               | 1 (temp.)                |
| Clerk.....do.....  | 1,750.00   | ..               | 1 (pt. time)             |
| Clerk.....do.....  | 1,600.00   | 1                | ..                       |
| Clerk.....do.....  | 1,440.00   | 1 (new)          | ..                       |
| Clerks.....do.....   | 1,320.00   | ..               | 2                        |
| Clerks.....do.....   | 1,200.00   | 7 (5 new)        | 2                        |
| Clerks.....do.....   | 1,100.00   | ..               | 2 (temp.)                |
| Clerk.....do.....  | 1,000.00   | ..               | 1 (temp.)                |
| Aids, student assistants, col-<br>laborators, messenger boys,<br>and charwomen, \$900 to \$240.....do..... |            | 15 (9 temp.)     | 16 (6 pt. time; 9 temp.) |
| <b>Wages:</b>  |            |                  |                          |
| Miscellaneous temporary labor,<br>\$5.25 to \$3.36.....per diem..  |            | 2                | 1                        |
|  |            | 54               | 47                       |
| Salaries.....  |            | \$60,290.00      | \$21,060.78              |
| Wages.....   |            | 350.00           | 320.25                   |
| <b>Other objects of expenditures:</b>  |            |                  |                          |
| Traveling expenses.....  |            | 2,000.00         | 843.07                   |
| Equipment and material.....  |            | 6,660.00         | 2,727.03                 |
| Miscellaneous items.....   |            | 5,000.00         | 4,006.17                 |
| <b>Total.....</b>  |            | <b>74,300.00</b> | <b>28,957.30</b>         |

- (43) For general administrative expenses connected with the lines of work of the States Relations Service, including the offices of the director, the chief clerk, the officers in charge of publications, library, accounts, records, supplies, and property, and for miscellaneous expenses incident thereto **[\$14,180]** (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; July 24, 1919, vol. 41, p. 261, sec. 1*)..... **\$22,600.00**

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1917..... | \$16,280 | Estimate for 1917..... | \$16,280 |
| Appropriation for 1918..... | 15,680   | Estimate for 1918..... | 20,000   |
| Appropriation for 1919..... | 15,680   | Estimate for 1919..... | 15,680   |
| Appropriation for 1920..... | 14,180   | Estimate for 1920..... | 19,180   |
|                             |          | Estimate for 1921..... | 22,600   |

NOTE.—There is an apparent increase in the above item of \$8,420, but taking into consideration transfers to the statutory roll aggregating \$1,580, the actual increase is \$10,000. The present appropriation is inadequate to meet the expenses properly chargeable against this item. The correspondence and other business with the executive offices and bureaus of the department have greatly increased, and, in order to meet this expense and properly provide for the overhead expenses incident to growth of the field work, temporary help, and other unforeseen emergencies, additional funds are required. Supplies, equipment, and traveling expenses have all increased in cost, and the range of salaries for all classes of assistance is higher than formerly.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.       |            |                                       |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|---------------------------------------|-------------------------|---|---|
| <i>General Expenses, States Relations Service—Continued.</i>  |            |                                       |                         |   |   |
| Employees.  | Rates.     | Estimated, 1921.                      | Expended, 1919.         |   |   |
| Salaries:   |            | Number.                               | Number.                 |   |   |
| Agricultural physicist.....per annum..  | \$3,500.00 | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 2,520.00   | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 2,220.00   | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 1,920.00   | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 1,800.00   | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 1,560.00   | 1 (pt. time)                          | 1 (pt. time)            |   |   |
| Scientific assistant.....do.....  | 1,500.00   | 1 (pt. time)                          | ..                      |   |   |
| Clerk.....do.....   | 2,400.00   | ..                                    | 1 (pt. time)            |   |   |
| Clerks.....do.....  | 1,600.00   | ..                                    | 2 (1 temp.)             |   |   |
| Clerk.....do.....   | 1,400.00   | 1                                     | 1 (pt. time)            |   |   |
| Clerks.....do.....  | 1,200.00   | 6 (temp.)                             | ..                      |   |   |
| Clerks.....do.....  | 1,100.00   | 3 (temp.)                             | 3 (1 pt. time; 1 temp.) |   |   |
| Clerks.....do.....  | 1,000.00   | ..                                    | 2 (temp.)               |   |   |
| Watchmen, messenger boys, and charwomen, \$720 to \$240.....do.....   |            | 10 (temp.)                            | 12 (temp.)              |   |   |
| Wages:  |            |                                       |                         |   |   |
| Laborer.....do.....   | 720.00     | 1 (temp.)                             | 1 (temp.)               |   |   |
| Miscellaneous temporary labor, \$5.25 to \$3.36.....do.....   |            | 3                                     | 3                       |   |   |
|   |            | 31                                    | 31                      |   |   |
| Salaries.....   |            | \$15,020.00                           | \$9,631.66              |   |   |
| Wages.....  |            | 1,200.00                              | 863.15                  |   |   |
| Other objects of expenditure:   |            |                                       |                         |   |   |
| Stationery.....   |            | 830.00                                | 313.78                  |   |   |
| Traveling expenses.....   |            | 750.00                                | 304.80                  |   |   |
| Equipment and material.....   |            | 2,100.00                              | 1,492.64                |   |   |
| Telegraph and telephone service.....  |            | 650.00                                | 599.61                  |   |   |
| Miscellaneous items.....  |            | 2,050.00                              | 1,754.70                |   |   |
| Total.....  |            | 22,600.00                             | 14,965.34               |   |   |
| In all, for general expenses.....   |            |                                       |                         | \$4,705,280.00  | \$4,701,980.00  |
| Appropriation for 1911.....   | \$362,400  | Estimate for 1912.....                | \$1,622,500             |   |   |
| Appropriation for 1912.....   | 1,592,500  | Estimate for 1913.....                | 1,604,160               |   |   |
| Appropriation for 1913.....   | 1,599,160  | Estimate for 1914.....                | 1,613,500               |   |   |
| Appropriation for 1914.....   | 1,613,500  | Estimate for 1915.....                | 1,613,255               |   |   |
| Appropriation for 1915.....   | 1,633,500  | Estimate for 1916.....                | 2,718,700               |   |   |
| Appropriation for 1916.....   | 2,718,700  | Estimate for 1917.....                | 2,754,140               |   |   |
| Appropriation for 1917.....   | 2,812,140  | Estimate for 1918.....                | 3,017,900               |   |   |
| Appropriation for 1918.....   | 2,972,580  | Estimate for 1919.....                | 2,969,840               |   |   |
| Appropriation for 1919.....   | 2,969,840  | Estimate for 1920.....                | 3,041,980               |   |   |
| Appropriation for 1920.....   | 4,701,980  | Estimate for 1921.....                | 4,705,280               |   |   |
| <i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i> |            |                                       |                         |   |   |
| GENERAL EXPENSES—STATES RELATIONS SERVICE.  |            |                                       |                         |   |   |
| 1 clerk, \$2,400 per annum.   |            | 2 clerks, at \$1,400 each per annum.  |                         |   |   |
| 1 clerk, \$1,980 per annum.   |            | 3 clerks, at \$1,320 each per annum.  |                         |   |   |
| 1 clerk, \$1,800 per annum.   |            | 24 clerks, at \$1,200 each per annum. |                         |   |   |
| 1 clerk, \$1,740 per annum.   |            | 8 clerks, at \$1,100 each per annum.  |                         |   |   |
| 6 clerks, at \$1,600 each per annum.  |            | 16 clerks, at \$1,000 each per annum. |                         |   |   |
| 2 clerks, at \$1,500 each per annum.  |            | 2 clerks, at \$900 each per annum.    |                         |   |   |
| Total for States Relations Service.....   |            |                                       |                         | 4,968,540.00  | 4,905,820.00  |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| BUREAU OF PUBLIC ROADS.   |   |   |
| <i>Salaries, Bureau of Public Roads —</i>   |   |   |
| (1) One chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 262, 263, sec. 1</i> ) .....  | \$6,000.00  |   |
| (2) <b>One editor, \$2,500, changed to 1 chief clerk, \$2,500.</b><br><br>NOTE.—This change in designation is recommended so as to make it possible to utilize the position, which is now vacant, by the transfer of the present chief clerk from the lump fund roll. |   |   |
| (3) One chief clerk (in lieu of 1 editor, \$2,500) ( <i>same acts</i> ) .....   | 2,500.00  |   |
| NOTE.—See note under item 2.  |   |   |
| (4) One draftsman or clerk ( <i>same acts</i> ) .....   | 1,920.00  |   |
| (5) One clerk ( <i>same acts</i> ) .....  | 1,900.00  |   |
| (6) One instrument maker ( <i>same acts</i> ) .....   | 1,800.00  |   |
| (7) One model maker ( <i>same acts</i> ) .....  | 1,800.00  |   |
| (8) Four clerks, class 4 ( <i>same acts</i> ) .....   | 7,200.00  |   |
| (9) Seven clerks, class 3 (increase of 1 by transfer from lump fund for road building and maintenance) ( <i>same acts</i> ) .....   | 11,200.00   |   |
| (10) One clerk or editorial clerk ( <i>same acts</i> ) .....  | 1,600.00  |   |
| (11) Three clerks, at \$1,500 each (increase of 1 by transfer from lump fund for road building and maintenance) ( <i>same acts</i> ) ..   | 4,500.00  |   |
| (12) One clerk or photographer ( <i>same acts</i> ) .....   | 1,440.00  |   |
| (13) One clerk or instrument maker ( <i>same acts</i> ) .....   | 1,440.00  |   |
| (14) One clerk or tabulator ( <i>same acts</i> ) .....  | 1,440.00  |   |
| (15) One clerk, class 2 ( <i>same acts</i> ) .....  | 1,400.00  |   |
| (16) Two clerks, at \$1,380 each ( <i>same acts</i> ) .....   | 2,760.00  |   |
| (17) Two clerks, at \$1,320 each ( <i>same acts</i> ) .....   | 2,640.00  |   |
| (18) Four clerks, at \$1,260 each ( <i>same acts</i> ) .....  | 5,040.00  |   |
| (19) Six clerks, class 1 ( <i>same acts</i> ) .....   | 7,200.00  |   |
| (20) One clerk or editorial clerk ( <i>same acts</i> ) .....  | 1,200.00  |   |
| (21) One draftsman ( <i>same acts</i> ) .....   | 1,320.00  |   |
| (22) One clerk or draftsman ( <i>same acts</i> ) .....  | 1,200.00  |   |
| (23) One clerk or draftsman ( <i>same acts</i> ) .....  | 900.00  |   |
| (24) One clerk or photographer ( <i>same acts</i> ) .....   | 1,200.00  |   |
| (25) One clerk or photographer ( <i>same acts</i> ) .....   | 1,000.00  |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Public Roads—Continued.</i>  |   |   |
| (26) Two clerks, at \$1,140 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol 41, pp. 262, 263, sec. 1</i> ) .....  | \$2, 280. 00  |   |
| (27) One clerk ( <i>same acts</i> ) .....   | 1, 100. 00  |   |
| (28) Two clerks, at \$1,080 each ( <i>same acts</i> ) .....   | 2, 160. 00  |   |
| (29) One clerk ( <i>same acts</i> ) .....   | 1, 020. 00  |   |
| (30) Nine clerks, at \$1,000 each ( <i>same acts</i> ) .....  | 9, 000. 00  |   |
| (31) One clerk or skilled laborer ( <i>same acts</i> ) .....  | 1, 000. 00  |   |
| (32) Four clerks, at \$900 each ( <i>same acts</i> ) .....  | 3, 600. 00  |   |
| (33) One mechanic ( <i>same acts</i> ) .....  | 1, 680. 00  |   |
| (34) One clerk or instrument maker ( <i>same acts</i> ) .....   | 1, 200. 00  |   |
| (35) One lantern-slide colorist ( <i>same acts</i> ) .....  | 1, 320. 00  |   |
| (36) One mechanic (by transfer from lump fund for road building and maintenance) ( <i>same acts</i> ) .....   | 2, 100. 00  |   |
| (37) One mechanic ( <i>same acts</i> ) .....  | 1, 500. 00  |   |
| (38) One mechanic ( <i>same acts</i> ) .....  | 1, 200. 00  |   |
| (39) One skilled laborer ( <i>same acts</i> ) .....   | 1, 200. 00  |   |
| (40) One skilled laborer or mechanic (by transfer from lump fund for road management) ( <i>same acts</i> ) .....  | 840. 00   |   |
| (41) One laboratory aid ( <i>same acts</i> ) .....  | 960. 00   |   |
| (42) One telephone operator (by transfer from lump fund for road building and maintenance) ( <i>same acts</i> ) .....   | 720. 00   |   |
| (43) Two laborers, at \$900 each ( <i>same acts</i> ) .....   | 1, 800. 00  |   |
| (44) Two messengers or laborers, at \$840 each ( <i>same acts</i> ) .....   | 1, 680. 00  |   |
| (45) Two messengers, laborers, or laboratory helpers, at \$720 each ( <i>same acts</i> ) .....  | 1, 440. 00  |   |
| (46) Two messengers or laborers, at \$660 each ( <i>same acts</i> ) .....   | 1, 320. 00  |   |
| (47) Four messengers or laborers, at \$600 each ( <i>same acts</i> ) .....  | 2, 400. 00  |   |
| (48) Three messenger boys, at \$600 each ( <i>same acts</i> ) .....   | 1, 800. 00  |   |
| (49) One fireman ( <i>same acts</i> ) .....   | 720. 00   |   |
| (50) Eight messenger boys, at \$480 each ( <i>same acts</i> ) .....   | 3, 840. 00  |   |
| (51) Eight charwomen, at \$240 each ( <i>same acts</i> ) .....  | 1, 920. 00  |   |
|   | <b>\$120, 400. 00</b>   | <b>\$113, 640. 00</b>   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Public Roads—Continued.</i>  |   |   |
| Appropriations for 1911..... \$21,260   | Estimates for 1912..... \$34,060                                  |   |
| Appropriations for 1912..... 34,020   | Estimates for 1913..... 37,940                                    |   |
| Appropriations for 1913..... 37,020   | Estimates for 1914..... 54,400                                    |   |
| Appropriations for 1914..... 47,400   | Estimates for 1915..... 53,000                                    |   |
| Appropriations for 1915..... 52,500   | Estimates for 1916..... 75,960                                    |   |
| Appropriations for 1916..... 75,960   | Estimates for 1917..... 88,880                                    |   |
| Appropriations for 1917..... 88,380   | Estimates for 1918..... 98,720                                    |   |
| Appropriations for 1918..... 95,360   | Estimates for 1919..... 104,020                                   |   |
| Appropriations for 1919..... 104,020  | Estimates for 1920..... 112,140                                   |   |
| Appropriations for 1920..... 113,640  | Estimates for 1921..... 120,400                                   |   |
| NOTE.—Apparent increase, \$6,760; no actual increase, as follows:   |   |   |
| <i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>   |   |   |
| 1 clerk, class 3, from road building and maintenance .....  | \$1,600   |   |
| 1 clerk, from road building and maintenance .....   | 1,500   |   |
| 1 mechanic, from road building and maintenance .....  | 2,100   |   |
| 1 skilled laborer or mechanic from road management .....  | 840   |   |
| 1 telephone operator, from road building and maintenance .....  | 720   |   |
| Apparent increase .....   | 6,760   |   |
| <i>Change of title.</i>   |   |   |
| 1 editor, \$2 500, changed to 1 chief clerk, \$2,500.   |   |   |
| <i>General Expenses, Bureau of Public Roads—</i>  |   |   |
| (52) For salaries and the employment of labor in the city of Washington and elsewhere, supplies, office fixtures, apparatus, traveling and all other necessary expenses, for conducting investigations and experiments, and for collating, reporting, and illustrating the results of same, and for preparing, publishing, and distributing bulletins and reports, as follows: <i>Provided</i> , That no part of these appropriations shall be expended for the rent or purchase of road-making machinery, except such as may be necessary for field experimental work as hereinafter provided for ( <i>acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1</i> ): |   |   |
| (53) For inquiries in regard to systems of road management throughout the United States and for giving expert advice on this subject <b>["\$38, 240"]</b> ( <i>same acts</i> ).....   |   |   |
| Appropriation for 1911..... \$16,000  | Estimate for 1912..... \$21,780                                   |   |
| Appropriation for 1912..... 20,000  | Estimate for 1913..... 25,000                                     |   |
| Appropriation for 1913..... 25,000  | Estimate for 1914..... 56,500                                     |   |
| Appropriation for 1914..... 40,000  | Estimate for 1915..... 48,800                                     |   |
| Appropriation for 1915..... 44,800  | Estimate for 1916..... 42,600                                     |   |
| Appropriation for 1916..... 43,600  | Estimate for 1917..... 39,540                                     |   |
| Appropriation for 1917..... 39,540  | Estimate for 1918..... 41,040                                     |   |
| Appropriation for 1918..... 41,040  | Estimate for 1919..... 40,040                                     |   |
| Appropriation for 1919..... 40,040  | Estimate for 1920..... 38,240                                     |   |
| Appropriation for 1920..... 38,240  | Estimate for 1921..... 36,200                                     |   |
| NOTE.—There is a decrease in this item of \$2,040, due to the transfer to the statutory roll of this bureau of 1 skilled laborer or mechanic at \$840, and the transfer of 1 clerk of class 1 to the statutory roll of the Division of Publications.  |   |   |





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |  |            |                        | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|--|------------|------------------------|---|---|
| General Expenses, Bureau of Public Roads—Continued.  |  |            |                        |   |   |
| Employees.   |  | Rate.      | Estimated, 1921.       | Expended, 1919.   |   |
| Salaries:  |  |            | Number.                | Number.   |   |
| Chief of economics, in charge, per annum..   |  | \$3,720.00 | 1 (new)                | ..  |   |
| Chief of management, in charge.....do....  |  | 3,720.00   | ..                     | 1   |   |
| Assistant in road economics.....do....   |  | 2,500.00   | 1                      | 1   |   |
| Chief editorial division.....do....  |  | 3,000.00   | 1                      | 1   |   |
| Editorial assistant.....do....   |  | 1,920.00   | 1                      | 1   |   |
| Assistant in road management.....do....  |  | 2,280.00   | 1 (new)                | ..  |   |
| Assistant in road management.....do....  |  | 1,920.00   | 1 (new)                | ..  |   |
| Senior highway engineer.....do....   |  | 2,500.00   | 1 (pt. time)           | 1 (pt. time)  |   |
| Senior highway engineer.....do....   |  | 2,340.00   | 1 (pt. time)           | 1 (pt. time)  |   |
| Highway engineer.....do....  |  | 2,000.00   | 1 (pt. time)           | 1 (pt. time)  |   |
| Highway engineer.....do....  |  | 1,860.00   | 1                      | 1   |   |
| Highway engineer.....do....  |  | 1,800.00   | 1 (pt. time)           | 1 (pt. time)  |   |
| Junior highway engineer.....do....   |  | 1,380.00   | 1 (pt. time)           | 1 (pt. time)  |   |
| Engineer economists.....do....   |  | 2,400.00   | 2 (1 new)              | 1   |   |
| Engineer economists.....do....   |  | 1,800.00   | 3                      | 3   |   |
| Engineer economists.....do....   |  | 2,040.00   | 1                      | 1   |   |
| Topographic draftsman.....do....   |  | 1,440.00   | 1                      | 1   |   |
| Copyist, topographic draftsman.....do....  |  | 1,200.00   | 2 (temp.)              | 2 (temp.)   |   |
| Clerk.....do....   |  | 1,800.00   | ..                     | 1   |   |
| Clerk.....do....   |  | 1,600.00   | ..                     | 1 (temp.)   |   |
| Clerk.....do....   |  | 1,500.00   | ..                     | 1 (temp.)   |   |
| Clerk.....do....   |  | 1,200.00   | ..                     | 1 (temp.)   |   |
| Clerks.....do....  |  | 1,100.00   | ..                     | 3 (temp.)   |   |
| Clerk.....do....   |  | 1,020.00   | ..                     | 1 (temp.)   |   |
| Assistant photographer, copyist<br>draftsmen, charwomen, and mes-<br>senger boys, \$900 to \$240.....do....  |  |            | 6 (temp.)              | 6 (temp.)   |   |
| Collaborators, \$1.50 to \$5.....per diem.....   |  |            | 50 (temp.)             | 50 (temp.)  |   |
| Wages:   |  |            |                        |   |   |
| Laborers, \$840 and \$600.....per annum..  |  |            | 5 (temp.)              | 6 (temp.)   |   |
|  |  |            | 82                     | 88  |   |
| Salaries.....  |  |            | \$28,300.00            | \$29,377.11   |   |
| Wages.....   |  |            | 500.00                 | 174.00  |   |
| Other objects of expenditure:  |  |            |                        |   |   |
| Traveling expenses.....  |  |            | 5,500.00               | 2,334.01  |   |
| Equipment and material.....  |  |            | 500.00                 | 289.20  |   |
| Miscellaneous items.....   |  |            | 1,400.00               | 1,378.50  |   |
| Total.....   |  |            | 36,200.00              | 33,552.82   |   |
| (54) For investigations of the best methods of road making, especially ordinary sand-clay and dirt roads, and the best kinds of road-making materials, and for furnishing expert advice on road building and maintenance <b>[\$138,220]</b> ( <i>acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1</i> )..... |  |            |                        |   |   |
|  |  |            |                        | \$132,300.00  |   |
| Appropriation for 1911.....  |  | \$43,000   | Estimate for 1912..... | \$60,000  |   |
| Appropriation for 1912.....  |  | 60,000     | Estimate for 1913..... | 75,000  |   |
| Appropriation for 1913.....  |  | 75,000     | Estimate for 1914..... | 164,660   |   |
| Appropriation for 1914.....  |  | 105,000    | Estimate for 1915..... | 166,330   |   |
| Appropriation for 1915.....  |  | 145,000    | Estimate for 1916..... | 145,000   |   |
| Appropriation for 1916.....  |  | 145,000    | Estimate for 1917..... | 142,780   |   |
| Appropriation for 1917.....  |  | 142,780    | Estimate for 1918..... | 141,780   |   |
| Appropriation for 1918.....  |  | 141,780    | Estimate for 1919..... | 141,060   |   |
| Appropriation for 1919.....  |  | 141,060    | Estimate for 1920..... | 138,220   |   |
| Appropriation for 1920.....  |  | 138,220    | Estimate for 1921..... | 132,300   |   |
| NOTE.—There is a decrease in this item of \$5,920, due to transfers to the statutory roll.   |  |            |                        |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Public Roads—Continued.</i>  |            |                  |                 |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries:   |            | Number.          | Number.         |   |   |
| Chief engineer..... per annum.....  | \$4,500.00 | 1                | 1               |   |   |
| Assistant chief engineer.....do.....  | 4,000.00   | 1                | ..              |   |   |
| Consulting engineer.....do.....   | 3,500.00   | ..               | 1               |   |   |
| District engineer.....do.....   | 4,000.00   | 1 (pt. time)     | 1 (pt. time)    |   |   |
| General inspectors.....do.....  | 3,500.00   | ..               | 2               |   |   |
| Assistant engineer.....do.....  | 3,500.00   | ..               | 1               |   |   |
| Bridge engineer.....do.....   | 3,500.00   | 1                | 1               |   |   |
| Senior highway-bridge engineers.....do.....   | 3,300.00   | 2 (pt. time)     | 2 (pt. time)    |   |   |
| Senior highway-bridge engineers.....do.....   | 3,000.00   | 4 (pt. time)     | 4 (pt. time)    |   |   |
| Senior highway-bridge engineer.....do.....  | 2,600.00   | ..               | 1               |   |   |
| Highway-bridge engineers.....do.....  | 2,100.00   | 5                | 5               |   |   |
| Highway-bridge engineers.....do.....  | 1,920.00   | 2                | 2               |   |   |
| Highway-bridge engineers.....do.....  | 1,800.00   | 2                | 2               |   |   |
| Senior highway engineers.....do.....  | 3,000.00   | 4 (pt. time)     | 4 (pt. time)    |   |   |
| Senior highway engineer.....do.....   | 2,520.00   | 1 (pt. time)     | 1 (pt. time)    |   |   |
| Senior highway engineers.....do.....  | 2,500.00   | 13 (pt. time)    | 13 (pt. time)   |   |   |
| Senior highway engineers.....do.....  | 2,280.00   | 2 (pt. time)     | 2 (pt. time)    |   |   |
| Senior highway engineers.....do.....  | 2,400.00   | 4 (pt. time)     | 4 (pt. time)    |   |   |
| Highway engineers.....do.....   | 2,100.00   | 11 (pt. time)    | 11 (pt. time)   |   |   |
| Highway engineer.....do.....  | 1,740.00   | 1                | 1               |   |   |
| Superintendent of road construction.....do.....   | 1,920.00   | 1                | 1               |   |   |
| Superintendent of road construction.....do.....   | 1,850.00   | 1                | 1               |   |   |
| Superintendent of road construction.....do.....   | 1,740.00   | 2                | 2               |   |   |
| Engineer draftsmen.....do.....  | 1,800.00   | 5 (3 new)        | 2               |   |   |
| Engineer draftsmen.....do.....  | 1,740.00   | 1                | 1               |   |   |
| Engineer draftsmen.....do.....  | 1,500.00   | 2                | 2               |   |   |
| Concrete inspector.....do.....  | 1,800.00   | ..               | 1 (temp.)       |   |   |
| Topographic draftsman.....do.....   | 1,440.00   | 1                | 1               |   |   |
| Chief clerk.....do.....   | 2,500.00   | ..               | 1               |   |   |
| Clerk.....do.....   | 2,000.00   | ..               | 1 (temp.)       |   |   |
| Clerk.....do.....   | 1,600.00   | ..               | 1               |   |   |
| Clerk.....do.....   | 1,500.00   | ..               | 1               |   |   |
| Clerks.....do.....  | 1,400.00   | ..               | 2 (temp.)       |   |   |
| Clerks.....do.....  | 1,200.00   | 6 (temp.)        | 10 (temp.)      |   |   |
| Clerks.....do.....  | 1,100.00   | 5 (temp.)        | 5 (temp.)       |   |   |
| Watchmen, telephone operator, messenger boys, and char-woman, \$720 to \$240.....do.....  |            | 4                | 6               |   |   |
| Wages:  |            |                  |                 |   |   |
| Mechanic.....do.....  | 2,100.00   | ..               | 1               |   |   |
| Skilled laborer.....do.....   | 1,200.00   | ..               | 1 (pt. time)    |   |   |
| Laborers, \$840 to \$270.....do.....  |            | 4                | 4               |   |   |
|   |            | 87               | 103             |   |   |
| Salaries.....   |            | \$85,000.00      | \$73,218.33     |   |   |
| Wages.....  |            | 3,000.00         | 2,228.01        |   |   |
| Other objects of expenditure:   |            |                  |                 |   |   |
| Stationery.....   |            | 3,000.00         | 2,525.25        |   |   |
| Traveling expenses.....   |            | 30,000.00        | 17,012.19       |   |   |
| Equipment and material.....   |            | 6,300.00         | 6,350.23        |   |   |
| Miscellaneous items.....  |            | 5,000.00         | 3,446.63        |   |   |
| Total.....  |            | 132,300.00       | 104,780.64      |   |   |

- (55) For investigations of the chemical and physical character of road materials, for conducting laboratory and field experiments, and for studies and investigations in road design, independently or in cooperation with State highway departments and other agencies **[\$47,020]** (acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1). **\$77,020.00**

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$23,280 | Estimate for 1912..... | \$28,360 |
| Appropriation for 1912..... | 23,000   | Estimate for 1913..... | 25,000   |
| Appropriation for 1913..... | 25,000   | Estimate for 1914..... | 35,580   |
| Appropriation for 1914..... | 30,000   | Estimate for 1915..... | 42,260   |
| Appropriation for 1915..... | 36,260   | Estimate for 1916..... | 34,820   |
| Appropriation for 1916..... | 34,820   | Estimate for 1917..... | 42,780   |
| Appropriation for 1917..... | 37,780   | Estimate for 1918..... | 51,220   |
| Appropriation for 1918..... | 51,220   | Estimate for 1919..... | 51,220   |
| Appropriation for 1919..... | 51,220   | Estimate for 1920..... | 47,020   |
| Appropriation for 1920..... | 47,020   | Estimate for 1921..... | 77,020   |

NOTE.—There is an increase in the above item of \$30,000. In the suddenly expanding program of new road construction the highway engineer is facing the problem of road design without adequate data from which to form definite conclusions as to the types, the strength, or the materials which can be most economically used. Motor-driven traffic has now become the chief factor in determining the services that will be required of our highways, and the rapidity with which this character of traffic has





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
|---|---|---|---------------------|--------------------|-----------|--|----------------|----------------|---|------------|---|---|-----------------------------|----------|---|---|---|----------|---|---|-------------------------------------|----------|-----------|---|----------------------------------|----------|---------|----|----------------------------|----------|---|---|----------------------|----------|---|---|-----------------------------------|----------|----|-----------|------------------|----------|-----------|---|---------------------------|----------|---|---|---------------------------|----------|---|---|----------------------------|----------|-----------|---|---------------------------|----------|---|---|--------------------------------|----------|----|-----------|------------------------|----------|----|-----------|--------------------------|----------|---------|----|---------------------------|----------|---|---|--------------------------|----------|---------|----|-------------------------------|----------|-----------|---|------------------------------|----------|---|---|--------------------------|----------|----|---|------------------|----------|---|---|--|----------|-----------|-----------|---------------|----------|----|-----------|----------------|----------|-----------|-----------|--|--|------------|-----------|--------|--|--|--|------------------|----------|----|-----------|----------------------------------|--|---------|---|--|--|----|----|---------------|--|-------------|-------------|------------|--|----------|--------|-------------------------------|--|--|--|-------------------------|--|----------|----------|-----------------------------|--|-----------|----------|--------------------------|--|----------|----------|------------|--|-----------|-----------|--|--|
| <i>General Expenses, Bureau of Public Roads—Continued.</i>  |   |   |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| developed has not permitted the gradual evolution of road types, as was the case with the prevailing road types developed to take care of the animal-drawn traffic. With the suddenly revolutionized methods of highway transportation, road surfaces which were adequate under former demands are failing to meet the greatly increased numbers and weights of motor vehicles. At the same time, the cost of highway construction has materially increased. Highway construction, it is apparent, will be one of the greatest public activities which has ever been undertaken, and appropriations running into the hundreds of millions of dollars have already been made to finance that large program. The increased appropriation requested under this item will provide for conducting a comprehensive series of laboratory and field tests designed to give information which will permit of the selection of the right type and right design of road to economically serve the purpose for which intended. It is proposed to conduct a large number of such experiments, in cooperation with the various State highway departments. A part of the increase will also be needed to provide additional testing equipment and employ additional assistance to take care of the increased volume of routine testing and research work in the Washington laboratory. The language in the paragraph has been amended so as to indicate more clearly the character of work contemplated.   |   |   |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr><tr><td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Testing engineer in charge....per annum</td><td>\$3,780.00</td><td>1</td><td>1</td></tr><tr><td>Mechanical engineer.....do.</td><td>3,500.00</td><td>1</td><td>1</td></tr><tr><td>Senior assistant testing engineer.....do.</td><td>2,500.00</td><td>1</td><td>1</td></tr><tr><td>Assistant testing engineers.....do.</td><td>2,400.00</td><td>3 (2 new)</td><td>1</td></tr><tr><td>Junior testing engineers.....do.</td><td>1,800.00</td><td>2 (new)</td><td>..</td></tr><tr><td>Economic geologist.....do.</td><td>3,500.00</td><td>1</td><td>1</td></tr><tr><td>Petrographer.....do.</td><td>1,800.00</td><td>1</td><td>1</td></tr><tr><td>Aid in mineral technology.....do.</td><td>1,800.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Chemists.....do.</td><td>2,400.00</td><td>2 (1 new)</td><td>1</td></tr><tr><td>Assistant chemist.....do.</td><td>2,220.00</td><td>1</td><td>1</td></tr><tr><td>Assistant chemist.....do.</td><td>2,200.00</td><td>1</td><td>1</td></tr><tr><td>Assistant chemists.....do.</td><td>1,800.00</td><td>2 (1 new)</td><td>1</td></tr><tr><td>Assistant chemist.....do.</td><td>1,400.00</td><td>1</td><td>1</td></tr><tr><td>Assistant in chemistry.....do.</td><td>1,320.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Junior chemist.....do.</td><td>1,200.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Highway engineer.....do.</td><td>2,400.00</td><td>1 (new)</td><td>..</td></tr><tr><td>Highway engineers.....do.</td><td>2,100.00</td><td>2</td><td>2</td></tr><tr><td>Highway engineer.....do.</td><td>1,500.00</td><td>1 (new)</td><td>..</td></tr><tr><td>Laboratory assistants.....do.</td><td>1,200.00</td><td>4 (2 new)</td><td>2</td></tr><tr><td>Laboratory assistant.....do.</td><td>1,000.00</td><td>1</td><td>1</td></tr><tr><td>Instrument maker.....do.</td><td>1,800.00</td><td>..</td><td>1</td></tr><tr><td>Computer.....do.</td><td>1,200.00</td><td>1</td><td>1</td></tr><tr><td>Assistant in quarry investigations.....do.</td><td>1,080.00</td><td>3 (temp.)</td><td>3 (temp.)</td></tr><tr><td>Clerk.....do.</td><td>1,100.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Clerks.....do.</td><td>1,000.00</td><td>3 (temp.)</td><td>3 (temp.)</td></tr><tr><td>Laboratory apprentices and helpers, \$600 to \$480.....do.</td><td></td><td>12 (temp.)</td><td>7 (temp.)</td></tr><tr><td>Wages:</td><td></td><td></td><td></td></tr><tr><td>Mechanic.....do.</td><td>1,200.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Laborers, \$900 to \$600.....do.</td><td></td><td>2 (new)</td><td>3</td></tr><tr><td></td><td></td><td>47</td><td>39</td></tr><tr><td>Salaries.....</td><td></td><td>\$50,000.00</td><td>\$36,071.89</td></tr><tr><td>Wages.....</td><td></td><td>5,000.00</td><td>975.00</td></tr><tr><td>Other objects of expenditure:</td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>8,000.00</td><td>3,906.88</td></tr><tr><td>Equipment and material.....</td><td></td><td>10,000.00</td><td>2,278.02</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>4,020.00</td><td>2,084.09</td></tr><tr><td>Total.....</td><td></td><td>77,020.00</td><td>45,315.88</td></tr></table> | Employees.  | Rate.   | Estimated,<br>1921. | Expended,<br>1919. | Salaries: |  | <i>Number.</i> | <i>Number.</i> | Testing engineer in charge....per annum | \$3,780.00 | 1 | 1 | Mechanical engineer.....do. | 3,500.00 | 1 | 1 | Senior assistant testing engineer.....do. | 2,500.00 | 1 | 1 | Assistant testing engineers.....do. | 2,400.00 | 3 (2 new) | 1 | Junior testing engineers.....do. | 1,800.00 | 2 (new) | .. | Economic geologist.....do. | 3,500.00 | 1 | 1 | Petrographer.....do. | 1,800.00 | 1 | 1 | Aid in mineral technology.....do. | 1,800.00 | .. | 1 (temp.) | Chemists.....do. | 2,400.00 | 2 (1 new) | 1 | Assistant chemist.....do. | 2,220.00 | 1 | 1 | Assistant chemist.....do. | 2,200.00 | 1 | 1 | Assistant chemists.....do. | 1,800.00 | 2 (1 new) | 1 | Assistant chemist.....do. | 1,400.00 | 1 | 1 | Assistant in chemistry.....do. | 1,320.00 | .. | 1 (temp.) | Junior chemist.....do. | 1,200.00 | .. | 1 (temp.) | Highway engineer.....do. | 2,400.00 | 1 (new) | .. | Highway engineers.....do. | 2,100.00 | 2 | 2 | Highway engineer.....do. | 1,500.00 | 1 (new) | .. | Laboratory assistants.....do. | 1,200.00 | 4 (2 new) | 2 | Laboratory assistant.....do. | 1,000.00 | 1 | 1 | Instrument maker.....do. | 1,800.00 | .. | 1 | Computer.....do. | 1,200.00 | 1 | 1 | Assistant in quarry investigations.....do. | 1,080.00 | 3 (temp.) | 3 (temp.) | Clerk.....do. | 1,100.00 | .. | 1 (temp.) | Clerks.....do. | 1,000.00 | 3 (temp.) | 3 (temp.) | Laboratory apprentices and helpers, \$600 to \$480.....do. |  | 12 (temp.) | 7 (temp.) | Wages: |  |  |  | Mechanic.....do. | 1,200.00 | .. | 1 (temp.) | Laborers, \$900 to \$600.....do. |  | 2 (new) | 3 |  |  | 47 | 39 | Salaries..... |  | \$50,000.00 | \$36,071.89 | Wages..... |  | 5,000.00 | 975.00 | Other objects of expenditure: |  |  |  | Traveling expenses..... |  | 8,000.00 | 3,906.88 | Equipment and material..... |  | 10,000.00 | 2,278.02 | Miscellaneous items..... |  | 4,020.00 | 2,084.09 | Total..... |  | 77,020.00 | 45,315.88 |  |  |
| Employees.  | Rate.   | Estimated,<br>1921.   | Expended,<br>1919.  |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Salaries:   |   | <i>Number.</i>  | <i>Number.</i>      |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Testing engineer in charge....per annum   | \$3,780.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Mechanical engineer.....do.   | 3,500.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Senior assistant testing engineer.....do.   | 2,500.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant testing engineers.....do.   | 2,400.00  | 3 (2 new)   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Junior testing engineers.....do.  | 1,800.00  | 2 (new)   | ..                  |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Economic geologist.....do.  | 3,500.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Petrographer.....do.  | 1,800.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Aid in mineral technology.....do.   | 1,800.00  | ..  | 1 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Chemists.....do.  | 2,400.00  | 2 (1 new)   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant chemist.....do.   | 2,220.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant chemist.....do.   | 2,200.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant chemists.....do.  | 1,800.00  | 2 (1 new)   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant chemist.....do.   | 1,400.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant in chemistry.....do.  | 1,320.00  | ..  | 1 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Junior chemist.....do.  | 1,200.00  | ..  | 1 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Highway engineer.....do.  | 2,400.00  | 1 (new)   | ..                  |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Highway engineers.....do.   | 2,100.00  | 2   | 2                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Highway engineer.....do.  | 1,500.00  | 1 (new)   | ..                  |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Laboratory assistants.....do.   | 1,200.00  | 4 (2 new)   | 2                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Laboratory assistant.....do.  | 1,000.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Instrument maker.....do.  | 1,800.00  | ..  | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Computer.....do.  | 1,200.00  | 1   | 1                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Assistant in quarry investigations.....do.  | 1,080.00  | 3 (temp.)   | 3 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Clerk.....do.   | 1,100.00  | ..  | 1 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Clerks.....do.  | 1,000.00  | 3 (temp.)   | 3 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Laboratory apprentices and helpers, \$600 to \$480.....do.  |   | 12 (temp.)  | 7 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Wages:  |   |   |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Mechanic.....do.  | 1,200.00  | ..  | 1 (temp.)           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Laborers, \$900 to \$600.....do.  |   | 2 (new)   | 3                   |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
|   |   | 47  | 39                  |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Salaries.....   |   | \$50,000.00   | \$36,071.89         |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Wages.....  |   | 5,000.00  | 975.00              |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Other objects of expenditure:   |   |   |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Traveling expenses.....   |   | 8,000.00  | 3,906.88            |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Equipment and material.....   |   | 10,000.00   | 2,278.02            |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Miscellaneous items.....  |   | 4,020.00  | 2,084.09            |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| Total.....  |   | 77,020.00   | 45,315.88           |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |
| (56) For conducting field experiments and various methods of road construction and maintenance, and investigations concerning various road materials and preparations; for investigating and developing equipment intended for the preparation and application of bituminous and other binders; for the purchase of materials and equipment; for the employment of assistants and labor; for the erection of buildings; such experimental work to be confined as nearly as possible to one point during the fiscal year ( <i>acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1</i> ) .....   | \$60,000.00   |   |                     |                    |           |  |                |                |   |            |   |   |                             |          |   |   |   |          |   |   |                                     |          |           |   |                                  |          |         |    |                            |          |   |   |                      |          |   |   |                                   |          |    |           |                  |          |           |   |                           |          |   |   |                           |          |   |   |                            |          |           |   |                           |          |   |   |                                |          |    |           |                        |          |    |           |                          |          |         |    |                           |          |   |   |                          |          |         |    |                               |          |           |   |                              |          |   |   |                          |          |    |   |                  |          |   |   |  |          |           |           |               |          |    |           |                |          |           |           |  |  |            |           |        |  |  |  |                  |          |    |           |                                  |  |         |   |  |  |    |    |               |  |             |             |            |  |          |        |                               |  |  |  |                         |  |          |          |                             |  |           |          |                          |  |          |          |            |  |           |           |  |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Public Roads—Continued.*

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1912..... | \$10,000 | Estimate for 1912..... | \$10,000 |
| Appropriation for 1913..... | 30,000   | Estimate for 1913..... | 20,000   |
| Appropriation for 1914..... | 45,000   | Estimate for 1914..... | 60,000   |
| Appropriation for 1915..... | 60,000   | Estimate for 1915..... | 70,000   |
| Appropriation for 1916..... | 60,000   | Estimate for 1916..... | 60,000   |
| Appropriation for 1917..... | 60,000   | Estimate for 1917..... | 60,000   |
| Appropriation for 1918..... | 60,000   | Estimate for 1918..... | 60,000   |
| Appropriation for 1919..... | 60,000   | Estimate for 1919..... | 60,000   |
| Appropriation for 1920..... | 60,000   | Estimate for 1920..... | 60,000   |
|                             |          | Estimate for 1921..... | 60,000   |

| Employees.   | Rate.      | Estimated,<br>1921.    | Expended,<br>1919. |
|--|------------|------------------------|--------------------|
| Salaries:  |            | Number.                | Number.            |
| Engineer of tests.....per annum..                                | \$3,780.00 | 1 (pt.time)            | ..                 |
| Senior assistant testing engineer....do....                      | 2,500.00   | 1 (pt.time)            | ..                 |
| Highway engineers.....do.....                                    | 2,100.00   | 2 (pt.time)            | ..                 |
| Superintendent of road construction.do....                       | 1,920.00   | 1 (pt.time)            | ..                 |
| Assistant mechanical engineer.....do....                         | 2,400.00   | 1 (pt.time)            | ..                 |
| Collaborators.....per diem..                                     | 2.00       | 6 (pt.time)            | 6 (pt.time)        |
| Wages:   |            |                        |                    |
| Road patrolman and laborers, \$1,050 to \$900.....per annum..... |            | 4                      | 4                  |
|  |            | 16                     | 10                 |
| Salaries.....  |            | \$7,500.00             | \$500.25           |
| Wages.....   |            | 4,000.00               | 3,957.17           |
| Other objects of expenditure:                                    |            |                        |                    |
| Travelling expenses.....   |            | 3,500.00               | .....              |
| Miscellaneous items.....   |            | 30,000.00              | 32,697.49          |
| Construction work.....   |            | <sup>1</sup> 15,000.00 | ( <sup>2</sup> )   |
| Total.....   |            | 60,000.00              | 37,154.91          |

<sup>1</sup> It is not practicable to make a detailed estimate of construction work for 1921, as it has not been determined at this time.

<sup>2</sup> No construction work was done during the fiscal year 1919, but experimental maintenance of 15½ miles of road in Montgomery County, Md., 7 miles in Alexandria County, Va., and 6½ miles in Fairfax County, Va., was conducted during the fiscal year 1919, at a cost to the department of \$36,021.85.

- (57) For investigating and reporting upon the utilization of water in farm irrigation, including the best methods to apply in practice; the different kinds of power and appliances, and the development of equipment for farm irrigation; the flow of water in ditches, pipes, and other conduits; the duty, apportionment, and measurement of irrigation water; the customs, regulations, and laws affecting irrigation; for the purchase and installation of equipment for experimental purposes; for the giving of expert advice and assistance; for the preparation and illustration of reports and bulletins on irrigation; for the employment of assistants and labor in the city of Washington and elsewhere; for rent outside of the District of Columbia; and for supplies and all necessary expenses **[\$82,440]** (*acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1*).....\$102,440.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$70,380 | Estimate for 1912..... | \$80,000 |
| Appropriation for 1912..... | 100,000  | Estimate for 1913..... | 98,300   |
| Appropriation for 1913..... | 98,300   | Estimate for 1914..... | 116,250  |
| Appropriation for 1914..... | 108,000  | Estimate for 1915..... | 106,400  |
| Appropriation for 1915..... | 106,400  | Estimate for 1916..... | 106,400  |
| Appropriation for 1916..... | 106,400  | Estimate for 1917..... | 103,400  |
| Appropriation for 1917..... | 103,400  | Estimate for 1918..... | 102,440  |
| Appropriation for 1918..... | 102,440  | Estimate for 1919..... | 102,440  |
| Appropriation for 1919..... | 82,440   | Estimate for 1920..... | 82,440   |
| Appropriation for 1920..... | 82,440   | Estimate for 1921..... | 102,440  |

NOTE.—There is an increase in this item of \$20,000. This merely restores the amount of the appropriation for irrigation investigations to that carried in the act for 1918. The appropriation for 1919 was reduced by \$20,000 as a matter of war economy and because over 30 per cent of the irrigation engineers of the bureau had entered the military service, thus necessitating a curtailment of the work. The severe droughts of the past few years have emphasized the necessity of utilizing economically and to the fullest possible extent the available water supply. Many of the older irrigation systems of the West need overhauling and extending in order to control more of the flood flow of streams and to become more efficient factors in the economic control of water. The demand for irrigated holdings is increasing rapidly, and in consequence there is an en-





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|------------------|-----------------|---|---|
| <i>General Expenses, Bureau of Public Roads—Continued.</i>   |            |                  |                 |   |   |
| larged demand upon the department for advice and assistance in organizing communities, designing systems, preparing land for irrigation, and in selecting the best method of applying water under varying conditions. The usefulness of the department's work in irrigation is indicated by the number and character of the cooperative agreements in effect. So willing are some of the Western States to cooperate with the department in the investigation of irrigation problems that they are contributing for this purpose two to three times the amount that the department is expending. |            |                  |                 |   |   |
| Employees.   | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries:  |            | Number.          | Number.         |   |   |
| Chief, irrigation investigations.....  |            | 1                | 1               |   |   |
| per annum.....   | \$3,750.00 | 1                | 1               |   |   |
| Irrigation economist.....  | 3,000.00   | 1                | 1               |   |   |
| do.....  | 1,980.00   | 1                | 1               |   |   |
| Assistant irrigation economist.....  | 1,620.00   | 1 (new)          | ..              |   |   |
| do.....  | 2,500.00   | 3                | 3               |   |   |
| Senior irrigation engineers.....   | 2,400.00   | 2                | 2               |   |   |
| do.....  | 2,280.00   | 1                | 1               |   |   |
| Senior irrigation engineers.....   | 2,220.00   | 2                | 2               |   |   |
| do.....  | 2,160.00   | 1                | 1               |   |   |
| Senior irrigation engineers.....   | 2,000.00   | 1                | 1               |   |   |
| do.....  | 1,740.00   | 1                | 1               |   |   |
| Senior irrigation engineer.....  | 1,740.00   | 1                | 1               |   |   |
| do.....  | 1,620.00   | 3 (1 new)        | 2               |   |   |
| Junior irrigation engineers.....   | 1,500.00   | 4 (2 new)        | 2               |   |   |
| do.....  | 1,500.00   | 1                | 1               |   |   |
| Assistant irrigation engineer.....   | 2,000.00   | 2                | 2               |   |   |
| Irrigation engineers.....  | 1,000.00   | 1 (part time)    | 1 (part time)   |   |   |
| do.....  | 1,500.00   | 1 (part time)    | 1 (part time)   |   |   |
| Irrigation manager.....  | 2,500.00   | 1                | 1               |   |   |
| Senior drainage engineer.....  | 2,100.00   | 1                | 1               |   |   |
| do.....  | 1,620.00   | 1                | 1               |   |   |
| Senior drainage engineer.....  | 1,800.00   | 2 (new)          | ..              |   |   |
| Agents.....  | 1,200.00   | 1 (part time)    | 1 (part time)   |   |   |
| Agent.....   |            | 34               | 28              |   |   |
| Salaries.....  |            | \$66,890.00      | \$51,029.00     |   |   |
| Other objects of expenditure:  |            |                  |                 |   |   |
| Traveling expenses.....  |            | 30,000.00        | 31,442.77       |   |   |
| Equipment and material.....  |            | 3,550.00         | 2,268.75        |   |   |
| Miscellaneous items.....   |            | 2,000.00         | 2,031.55        |   |   |
| Total.....   |            | 102,440.00       | 86,772.07       |   |   |

- (58) For investigating and reporting upon farm drainage and upon the drainage of swamp and other wet lands which may be made available for agricultural purposes; for preparing plans for the removal of surplus water by drainage, and for giving expert assistance by advice or otherwise in the drainage of such lands; for conducting field experiments and investigations concerning the construction and maintenance of farm-drainage work; for investigating and developing equipment intended for the construction and maintenance of farm drainage structures; for the purchase of materials and equipment; and for preparing and illustrating reports and bulletins on drainage; and for the employment of assistants and labor in the city of Washington and elsewhere; for rent outside of the District of Columbia, and for supplies and all necessary expenses **[\$73,760]** (*acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1*).....\$103,760.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$78,860 | Estimate for 1912..... | \$80,000 |
| Appropriation for 1912..... | 100,000  | Estimate for 1913..... | 96,700   |
| Appropriation for 1913..... | 100,000  | Estimate for 1914..... | 97,600   |
| Appropriation for 1914..... | 97,600   | Estimate for 1915..... | 96,280   |
| Appropriation for 1915..... | 96,280   | Estimate for 1916..... | 96,280   |
| Appropriation for 1916..... | 96,280   | Estimate for 1917..... | 94,720   |
| Appropriation for 1917..... | 94,720   | Estimate for 1918..... | 93,760   |
| Appropriation for 1918..... | 93,760   | Estimate for 1919..... | 93,760   |
| Appropriation for 1919..... | 73,760   | Estimate for 1920..... | 73,760   |
| Appropriation for 1920..... | 73,760   | Estimate for 1921..... | 103,760  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Public Roads—Continued.

NOTE.—There is an increase in the above item of \$30,000. This appropriation was reduced in the act for 1918 by \$20,000 as a measure of economy during the war period and because a large number of the drainage engineers of the bureau were furloughed for Army service. It is now requested that this amount be restored and the item further increased by \$10,000. This sum is needed in order that it may be possible, in cooperation with the State extension services, to get to the farmers on their farms some of the results of the department's investigations regarding irrigation problems, especially with reference to the use of tile drainage in the North Atlantic and New England States; the adoption of proper methods to prevent gullying and erosion in the upper Mississippi Valley and North Atlantic States and reclamation or improvement of areas usually wet or subject to inundation. It is also proposed to enlarge the investigational work to determine the proper capacities for drains and the effect in large tiled districts of thorough drainage upon the maximum rate of run-off. There is need for immediately investigating in the Central States the condition of old concrete tile drains, which have been supposed to be permanent. The movement of water in tile-drained fields, which should be the controlling consideration in arranging the drains, should also be studied more fully.

| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| <b>Salaries:</b>   |            | <i>Number.</i>      | <i>Number.</i>     |
| Chief of drainage investigation, per annum.                      | \$3,500.00 | 1                   | 1                  |
| Senior drainage engineer.....do.....                             | 2,640.00   | 1                   | 1                  |
| Senior drainage engineers.....do.....                            | 2,500.00   | 2                   | 2                  |
| Senior drainage engineers.....do.....                            | 2,400.00   | 3                   | 3                  |
| Senior drainage engineers.....do.....                            | 2,340.00   | 5                   | 5                  |
| Senior drainage engineers.....do.....                            | 2,220.00   | 3 (1 new)           | 2                  |
| Senior drainage engineer.....do.....                             | 2,040.00   | 1                   | 1                  |
| Drainage engineers.....do.....                                   | 1,800.00   | 8 (6 new)           | 2                  |
| Drainage engineer.....per diem.....                              | 10.50      | 1 (temp.)           | 1 (temp.)          |
| Drainage engineers.....per annum.....                            | 1,680.00   | 9                   | 9                  |
| Junior drainage engineer.....do.....                             | 1,380.00   | 1                   | 1                  |
| Agents and collaborators \$5 per diem to \$10.....per month..... |            | 4 (temp.)           | 4 (temp.)          |
| Clerk.....per annum.....   | 1,800.00   |                     | 1 (temp.)          |
| Clerk.....do.....  | 1,500.00   |                     | 1 (temp.)          |
| Clerk.....do.....  | 1,400.00   |                     | 1 (temp.)          |
| Clerk.....do.....  | 1,200.00   |                     | 1 (temp.)          |
| <b>Wages:</b>  |            |                     |                    |
| Laborers, \$600 to \$360.....do.....                             |            | 3 (temp.)           | 3 (temp.)          |
|  |            | 42                  | 39                 |
| Salaries.....  |            | \$68,000.00         | \$40,483.73        |
| Wages.....   |            | 500.00              | 465.00             |
| <b>Other objects of expenditure:</b>                             |            |                     |                    |
| Stationery.....  |            |                     | 794.91             |
| Traveling expenses.....  |            | 30,000.00           | 22,288.72          |
| Equipment and material.....                                      |            | 2,000.00            | 779.77             |
| Miscellaneous items.....   |            | 3,260.00            | 3,260.00           |
| <b>Total.....</b>  |            | <b>103,760.00</b>   | <b>68,072.13</b>   |

- (59) For investigating farm domestic water supply and drainage disposal, the construction of farm buildings, and other rural engineering problems involving mechanical principles, including the erection of such structures outside of the District of Columbia as may be necessary for experimental purposes only, the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses, **["\$25,000"] \$100,000, of which \$50,000 shall be immediately available (acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1).....\$100,000.00**

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1916..... | \$12,805 | Estimate for 1916..... | \$12,805 |
| Appropriation for 1917..... | 20,000   | Estimate for 1917..... | 27,805   |
| Appropriation for 1918..... | 25,000   | Estimate for 1918..... | 30,000   |
| Appropriation for 1919..... | 25,000   | Estimate for 1919..... | 60,900   |
| Appropriation for 1920..... | 25,000   | Estimate for 1920..... | 75,000   |
|                             |          | Estimate for 1921..... | 100,000  |

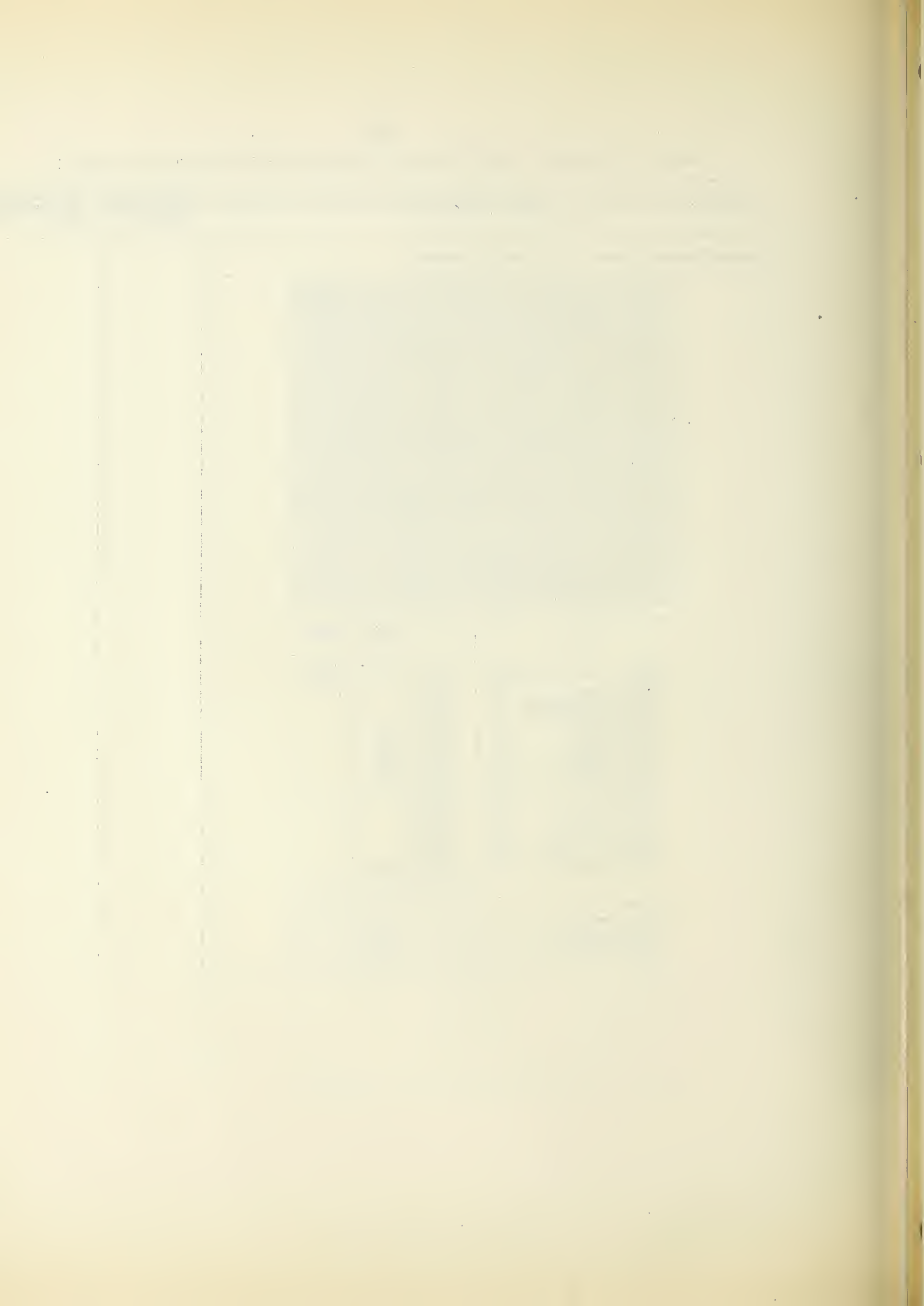
NOTE.—There is an increase in this item of \$75,000. In endeavoring to increase the efficiency of agricultural operations, the most economical utilization of farm power, both animal and mechanical, must be secured.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            |                     |                    | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|---------------------|--------------------|---|---|
| <i>General Expenses, Bureau of Public Roads—Continued.</i>   |            |                     |                    |   |   |
| <p>It is necessary, therefore, to give greater attention to the whole problem of farm power and also to develop simple and more efficient machinery to meet the needs of agriculture. The farm tractor, particularly, because of its size and relative importance as a power unit, is receiving an exceptional degree of attention at the present time, and thorough investigations and studies of the existing types must be made by a disinterested governmental agency. The necessity for some national agency to do testing and rating is clearly demonstrated by the fact that there is now a wide variation in the practice of manufacturers regarding the horsepower rating of engines, the amount of horsepower required to operate different farm units, the height of the hitch above the ground, the proper operating speeds, the width of belts, and many details of construction. Similar problems in connection with other power-producing and power-operated machines designed for use on the farm require careful investigation. The demand for advice and assistance in designing and arranging serviceable and sanitary farm buildings, and for information concerning the best methods of supplying and distributing water for domestic consumption and regarding mechanical equipment needed in the modern farm home has greatly increased. If the increase recommended is allowed, it is proposed to provide a testing plant at which investigations and tests that will assist in the selection and utilization of farm machinery and implements of all kinds may be conducted. Work of this character requires an adequate plant and a trained personnel. To provide the necessary equipment for conducting these tests and studies and to employ engineers to carry on the work, practically all of which will be outside of the District of Columbia, an increase of \$75,000 will be required. A proviso has been added making \$50,000 immediately available so that the construction of the testing plant and the necessary equipment may be started and the plant installed in time to begin testing at the earliest possible date.</p> |            |                     |                    |   |   |
| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |   |   |
| Salaries:  |            | Number.             | Number.            |   |   |
| Mechanical engineer, in charge, per annum..  | \$3,500.00 | 1                   | 1 (pt. time)       |   |   |
| Architect.....do.....  | 3,000.00   | 1                   | 1                  |   |   |
| Agricultural engineer.....do.....  | 2,400.00   | 1                   | 1                  |   |   |
| Assistant mechanical engineer.....do.....  | 2,400.00   | 1                   | 1                  |   |   |
| Assistant mechanical engineer.....do.....  | 2,000.00   | 1                   | 1                  |   |   |
| Assistant mechanical engineers.....do.....   | 2,100.00   | 3 (new)             | ..                 |   |   |
| Hydraulic engineer.....do.....   | 2,400.00   | 1                   | 1                  |   |   |
| Structural designer.....do.....  | 3,000.00   | 1 (new)             | ..                 |   |   |
| Structural draftsman.....do.....   | 1,500.00   | 1 (new)             | ..                 |   |   |
| Senior rural engineers.....do.....   | 2,700.00   | 3 (new)             | ..                 |   |   |
| Senior rural engineers.....do.....   | 2,400.00   | 3 (new)             | ..                 |   |   |
| Junior rural engineers.....do.....   | 2,100.00   | 2 (new)             | ..                 |   |   |
| Junior rural engineers.....do.....   | 1,920.00   | 2 (new)             | ..                 |   |   |
| Junior rural engineers.....do.....   | 1,800.00   | 2 (new)             | ..                 |   |   |
| Barn architect.....do.....   | 2,100.00   | 1                   | 1                  |   |   |
| Barn architect.....do.....   | 1,920.00   | 1                   | 1                  |   |   |
| Architectural draftsman.....do.....  | 1,900.00   | 1                   | 1                  |   |   |
| Architectural draftsman.....do.....  | 1,800.00   | 1                   | 1                  |   |   |
| Architectural draftsman.....do.....  | 1,600.00   | 1                   | 1                  |   |   |
| Architectural draftsman.....do.....  | 1,380.00   | 1                   | 1                  |   |   |
| Estimator.....do.....  | 1,800.00   | 1                   | 1                  |   |   |
| Assistant in rural engineering.....do.....   | 1,620.00   | 1                   | 1                  |   |   |
| Rural engineering draftsmen.....do.....  | 1,500.00   | 2 (new)             | ..                 |   |   |
| Mechanical draftsmen.....do.....   | 1,500.00   | 2 (new)             | ..                 |   |   |
|  |            | 35                  | 14                 |   |   |
| Salaries.....  |            | \$50,000.00         | \$21,058.32        |   |   |
| Other objects of expenditure:  |            |                     |                    |   |   |
| Traveling expenses.....  |            | 10,000.00           | \$64.15            |   |   |
| Equipment and material.....  |            | 35,000.00           | .....              |   |   |
| Miscellaneous items.....   |            | 5,000.00            | 183.86             |   |   |
| Total.....   |            | 100,000.00          | 22,106.33          |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |                                       | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
|---|---------------------------------------|---|---|------------------|-----------------|-----------|--|---------|---------|--------------------------|--------------|-------|------------|-------------------|------------|-------|------------|-------------------|------------|-------|------------|--|--|--|---|---------------|--|--|-----------|-------------------------------|--|--|--|-----------------|--|--------------|------------|-------------------------|--|--|---------|-----------------------------|--|------------|---------|--------------------------------------|--|------------|------------|--------------------------|--|------------|------------|------------|--|-------------|-------------|--|--|
| <i>General Expenses, Bureau of Public Roads—Continued.</i>  |                                       |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| (60) For general administrative expenses connected with the above-mentioned lines of investigations and experiments ( <i>acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; July 24, 1919, vol. 41, pp. 263, 264, sec. 1</i> ) .....   |                                       | \$16, 000. 00   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1911.....   | \$10, 700                             | Estimate for 1912.....  | \$11, 700   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1912.....   | 11, 700                               | Estimate for 1913.....  | 10, 100   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1913.....   | 10, 100                               | Estimate for 1914.....  | 15, 100   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1914.....   | 12, 000                               | Estimate for 1915.....  | 14, 000   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1915.....   | 14, 000                               | Estimate for 1916.....  | 12, 600   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1916.....   | 12, 600                               | Estimate for 1917.....  | 12, 600   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1917.....   | 12, 600                               | Estimate for 1918.....  | 16, 000   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1918.....   | 16, 000                               | Estimate for 1919.....  | 16, 000   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1919.....   | 16, 000                               | Estimate for 1920.....  | 16, 000   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1920.....   | 16, 000                               | Estimate for 1921.....  | 16, 000   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| <table> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr> <tr> <td>Salaries:</td><td></td><td>Number.</td><td>Number.</td></tr> <tr> <td>Clerk.....per annum.....</td><td>\$1, 800. 00</td><td>.....</td><td>1 (temp.).</td></tr> <tr> <td>Clerk.....do.....</td><td>1, 500. 00</td><td>.....</td><td>1 (temp.).</td></tr> <tr> <td>Clerk.....do.....</td><td>1, 400. 00</td><td>.....</td><td>1 (temp.).</td></tr> <tr> <td></td><td></td><td></td><td>3</td></tr> <tr> <td>Salaries.....</td><td></td><td></td><td>\$195. 83</td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td></td><td>\$4, 000. 00</td><td>4, 366. 98</td></tr> <tr> <td>Traveling expenses.....</td><td></td><td></td><td>272. 18</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>1, 000. 00</td><td>732. 87</td></tr> <tr> <td>Telephone and telegraph service.....</td><td></td><td>3, 000. 00</td><td>2, 672. 97</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>8, 000. 00</td><td>7, 249. 05</td></tr> <tr> <td>Total.....</td><td></td><td>16, 000. 00</td><td>15, 489. 88</td></tr> </table> |                                       | Employees.  | Rate.   | Estimated, 1921. | Expended, 1919. | Salaries: |  | Number. | Number. | Clerk.....per annum..... | \$1, 800. 00 | ..... | 1 (temp.). | Clerk.....do..... | 1, 500. 00 | ..... | 1 (temp.). | Clerk.....do..... | 1, 400. 00 | ..... | 1 (temp.). |  |  |  | 3 | Salaries..... |  |  | \$195. 83 | Other objects of expenditure: |  |  |  | Stationery..... |  | \$4, 000. 00 | 4, 366. 98 | Traveling expenses..... |  |  | 272. 18 | Equipment and material..... |  | 1, 000. 00 | 732. 87 | Telephone and telegraph service..... |  | 3, 000. 00 | 2, 672. 97 | Miscellaneous items..... |  | 8, 000. 00 | 7, 249. 05 | Total..... |  | 16, 000. 00 | 15, 489. 88 |  |  |
| Employees.  | Rate.                                 | Estimated, 1921.  | Expended, 1919.   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Salaries:   |                                       | Number.   | Number.   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Clerk.....per annum.....  | \$1, 800. 00                          | .....   | 1 (temp.).  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Clerk.....do.....   | 1, 500. 00                            | .....   | 1 (temp.).  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Clerk.....do.....   | 1, 400. 00                            | .....   | 1 (temp.).  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
|   |                                       |   | 3   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Salaries.....   |                                       |   | \$195. 83   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Other objects of expenditure:   |                                       |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Stationery.....   |                                       | \$4, 000. 00  | 4, 366. 98  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Traveling expenses.....   |                                       |   | 272. 18   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Equipment and material.....   |                                       | 1, 000. 00  | 732. 87   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Telephone and telegraph service.....  |                                       | 3, 000. 00  | 2, 672. 97  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Miscellaneous items.....  |                                       | 8, 000. 00  | 7, 249. 05  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Total.....  |                                       | 16, 000. 00   | 15, 489. 88   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| In all, for general expenses .....  |                                       | \$627, 720. 00  | \$480, 680. 00  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1911.....   | \$92, 980                             | Estimate for 1912.....  | \$131, 840  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1912.....   | 126, 700                              | Estimate for 1913.....  | 189, 456  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1913.....   | 165, 100                              | Estimate for 1914.....  | 331, 840  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1914.....   | 232, 000                              | Estimate for 1915.....  | 341, 390  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1915.....   | 300, 060                              | Estimate for 1916.....  | 597, 700  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1916.....   | 510, 505                              | Estimate for 1917.....  | 523, 625  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1917.....   | 510, 820                              | Estimate for 1918.....  | 611, 240  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1918.....   | 606, 240                              | Estimate for 1919.....  | 565, 420  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1919.....   | 489, 520                              | Estimate for 1920.....  | 530, 680  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Appropriation for 1920.....   | 480, 680                              | Estimate for 1921.....  | 627, 720  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 ( <i>32 Stat., p. 303</i> ).   |                                       |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| GENERAL EXPENSES—BUREAU OF PUBLIC ROADS.  |                                       |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| 1 clerk, \$2,000 per annum.   | 12 clerks, at \$1,200 each per annum. |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| 2 clerks, at \$1,800 each per annum.  | 9 clerks, at \$1,100 each per annum.  |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| 2 clerks, at \$1,600 each per annum.  | 1 clerk, at \$1,020 per annum.        |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| 3 clerks, at \$1,500 each per annum.  | 4 clerks, at \$1,000 each per annum.  |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| 3 clerks, at \$1,400 each per annum.  |                                       |   |   |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |
| Total for Bureau of Public Roads.....   |                                       | 748, 120. 00  | 594, 320. 00  |                  |                 |           |  |         |         |                          |              |       |            |                   |            |       |            |                   |            |       |            |  |  |  |   |               |  |  |           |                               |  |  |  |                 |  |              |            |                         |  |  |         |                             |  |            |         |                                      |  |            |            |                          |  |            |            |            |  |             |             |  |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <b>BUREAU OF MARKETS.</b>   |   |   |
| <i>Salaries, Bureau of Markets —</i>  |   |   |
| (1) One chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, p. 264, sec. 1</i> ) .....  | \$5,000.00  |   |
| (2) One chief clerk ( <i>same acts</i> ) .....  | 2,000.00  |   |
| (3) One administrative assistant ( <i>same acts</i> ) .....   | 3,000.00  |   |
| (4) One administrative assistant ( <i>same acts</i> ) .....   | 2,500.00  |   |
| (5) One administrative assistant (by transfer from lump fund for State cooperation in marketing) ( <i>same acts</i> ) .....   | 2,100.00  |   |
| (6) One clerk in charge of supplies and accounts ( <i>same acts</i> ) .....   | 2,250.00  |   |
| (7) Four executive clerks, at \$2,000 each (increase of 2 by transfer from lump funds for market inspection of perishable foods and collecting and distributing market information) ( <i>same acts</i> ) .....  | 8,000.00  |   |
| (8) Two clerks, at \$2,000 each (increase of 1 by transfer from lump fund for cotton futures act) ( <i>same acts</i> ) .....  | 4,000.00  |   |
| (9) One executive assistant ( <i>same acts</i> ) .....  | 1,980.00  |   |
| (10) One administrative assistant ( <i>same acts</i> ) .....  | 1,980.00  |   |
| (11) Eleven clerks, class 4 ( <i>same acts</i> ) .....  | 19,800.00   |   |
| (12) One clerk ( <i>same acts</i> ) .....   | 1,740.00  |   |
| (13) Sixteen clerks, class 3 (increase of 2 by transfer from lump funds for collecting and distributing market information and grain standardization) ( <i>same acts</i> ) .....  | 25,600.00   |   |
| (14) One clerk (by transfer from lump fund for market reports on live stock and meats) ( <i>same acts</i> ) .....   | 1,500.00  |   |
| (15) One clerk ( <i>same acts</i> ) .....   | 1,440.00  |   |
| (16) Thirty-five clerks, class 2 (decrease of 1 by transfer to statutory roll, Bureau of Farm Management and Farm Economics, and 1 new place, making no change in number of places) ( <i>same acts</i> ) .....  | 49,000.00   |   |
| NOTE.—This new place at \$1,400, the three \$1,200 places under item 20, and the place at \$1,100 under item 22, merely provide for the transfer of employees now paid from the appropriation "Classification of cotton, wheat price guaranty act of Mar. 4, 1919." The continued service of these employees will be needed in carrying out the work required by the amendments to the cotton futures act contained in the wheat price guaranty act. The transfer of one clerk of class 2 under this item and two clerks of class 1 under item 20 to the Bureau of Farm Management and Farm Economics is made incident to the transfer to that bureau of the work relating to rural organization. |   |   |
| (17) Two clerks, at \$1,380 each (increase of 1 by transfer from lump fund for marketing and distributing farm products) ( <i>same acts</i> ) .....   | 2,760.00  |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Markets—Continued.</i>   |   |   |
| (18) Five clerks, at \$1,320 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 87, p. 854, sec. 1; July 24, 1919, vol. 41, p. 264, sec. 1</i> ) .....  | \$6, 600. 00  |   |
| (19) One clerk ( <i>same acts</i> ) .....   | 1, 300. 00  |   |
| (20) One hundred and ninety-three clerks, class 1 (increase of 32, 29 by transfer from lump funds, 2 from marketing and distributing farm products, 7 from collecting and distributing market information, 4 from market reports on live stock and meats, 2 from dairy and poultry products, 1 from grain, hay, feeds, and seeds, 3 from market inspection of perishable foods, 1 from State cooperation in marketing, 1 from cotton futures act, and 8 from grain standards act, and 3 new places, and decrease of 2 by transfer to statutory roll, Bureau of Farm Management and Farm Economics, making a net increase of 30 places) ( <i>same acts</i> ) ..... | 231, 600. 00  |   |
| NOTE.—See note under item 16 in explanation of the request for the three new places, as well as the transfer of two places to the Bureau of Farm Management and Farm Economics.   |   |   |
| (21) One clerk ( <i>same acts</i> ) .....   | 1, 140. 00  |   |
| (22) Seventy-eight clerks, at \$1,100 each (increase of 38, 37 by transfer from lump funds, 2 from marketing and distributing farm products, 8 from collecting and distributing market information, 1 from market reports on live stock and meats, 2 from dairy and poultry products, 3 from grain, hay, feeds, and seeds, 1 from food supply investigations, 1 from market inspection of perishable foods, 1 from cotton testing, 1 from State cooperation in marketing, 1 from grain standardization, 2 from cotton futures act, 14 from grain standards act, and 1 new place) ( <i>same acts</i> ) .....   | 85, 800. 00   |   |
| NOTE.—See note under item 16 in explanation of request for one new place.   |   |   |
| (23) One hundred and one clerks, at \$1,000 each (increase of 13 by transfer from lump funds, 3 from marketing and distributing farm products, 5 from collecting and distributing market information, 2 from dairy and poultry products, 1 from food supply investigations, 1 from market inspection of perishable foods, and 1 from grain standards act) ( <i>same acts</i> ) .....  | 101, 000. 00  |   |
| (24) Thirteen clerks, at \$1,080 each ( <i>same acts</i> ) .....  | 14, 040. 00   |   |
| (25) Seven clerks, at \$1,020 each ( <i>same acts</i> ) .....   | 7, 140. 00  |   |
| (26) Two clerks, at \$960 each ( <i>same acts</i> ) .....   | 1, 920. 00  |   |
| (27) Twenty-four clerks, at \$900 each ( <i>same acts</i> ) .....   | 21, 600. 00   |   |
| (28) Three clerks, at \$840 each ( <i>same acts</i> ) .....   | 2, 520. 00  |   |
| (29) <b>Two clerks, at \$720 each</b>   |   |   |
| NOTE.—These places and those under items 34, 35, and 53 have been vacant for approximately 2 years and can not be filled because of the low salaries. It is therefore recommended that they be dropped.   |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Markets—Continued.</i>   |   |   |
| (30) One custodian (by transfer from lump fund for grain standardization) ( <i>R. S.</i> , p. 87, secs. 520-523; acts <i>Mar. 4, 1913</i> , vol. 37, p. 854, sec. 1; <i>July 24, 1919</i> , vol. 41, p. 264, sec. 1) .. | \$1, 200. 00  |   |
| (31) One laboratory helper ( <i>same acts</i> ) .....   | 900. 00   |   |
| (32) One laboratory aid ( <i>same acts</i> ) .....  | 960. 00   |   |
| (33) Three laboratory aids, at \$900 each ( <i>same acts</i> ) .....  | 2, 700. 00  |   |
| (34) <b>【One laboratory aid, \$840】</b><br>NOTE.—See note under item 29.  |   |   |
| (35) <b>【One laboratory aid, \$720】</b><br>NOTE.—See note under item 29.  |   |   |
| (36) One photographer ( <i>same acts</i> ) .....  | 1, 400. 00  |   |
| (37) One photographer ( <i>same acts</i> ) .....  | 1, 200. 00  |   |
| (38) One superintendent of telegraph ( <i>same acts</i> ) .....   | 2, 000. 00  |   |
| (39) One supervising telegrapher ( <i>same acts</i> ) .....   | 1, 620. 00  |   |
| (40) Five telegraph operators, at \$1,600 each ( <i>same acts</i> ) .....   | 8, 000. 00  |   |
| (41) Forty-seven telegraph operators, at \$1,400 each ( <i>same acts</i> ) ..   | 65, 800. 00   |   |
| (42) One telegraph operator ( <i>same acts</i> ) .....  | 1, 320. 00  |   |
| (43) Seven telegraph operators, at \$1,200 each ( <i>same acts</i> ) .....  | 8, 400. 00  |   |
| (44) One telegraph operator ( <i>same acts</i> ) .....  | 1, 080. 00  |   |
| (45) Two telephone operators, at \$900 each ( <i>same acts</i> ) .....  | 1, 800. 00  |   |
| (46) One telephone operator ( <i>same acts</i> ) .....  | 840. 00   |   |
| (47) One draftsman ( <i>same acts</i> ) .....   | 1, 400. 00  |   |
| (48) Three draftsmen, at \$1,200 each ( <i>same acts</i> ) .....  | 3, 600. 00  |   |
| (49) One draftsman (by transfer from lump fund for grain standardization) ( <i>same acts</i> ) .....  | 1, 000. 00  |   |
| (50) One draftsman ( <i>same acts</i> ) .....   | 900. 00   |   |
| (51) One map tracer ( <i>same acts</i> ) .....  | 900. 00   |   |
| (52) One map tracer ( <i>same acts</i> ) .....  | 720. 00   |   |
| (53) <b>【One map tracer, \$600】</b><br>NOTE.—See note under item 29.  |   |   |
| (54) Four machine operators, at \$1,200 each ( <i>same acts</i> ) .....   | 4, 800. 00  |   |
| (55) Two machine operators, at \$1,100 each ( <i>same acts</i> ) .....  | 2, 200. 00  |   |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Markets—Continued.</i>   |   |   |
| (56) Thirteen machine operators, at \$1,000 each (increase of 12 by transfer from lump funds, 1 from marketing and distributing farm products, 1 from collecting and distributing market information, 8 from market reports on live stock and meats, and 2 from dairy and poultry products) ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, p. 264, sec. 1)----- | \$13,000.00   |   |
| (57) Eight machine operators, at \$900 each (by transfer from lump funds, 3 from marketing and distributing farm products, 2 from collecting and distributing market information, 1 from dairy and poultry products, 1 from cotton standards investigations, and 1 from grain standards act) ( <i>same acts</i> )-----  | 7,200.00  |   |
| (58) Three chauffeurs, at \$900 each ( <i>same acts</i> )-----  | 2,700.00  |   |
| (59) Three skilled laborers, at \$900 each (increase of 1 by transfer from lump fund for grain, hay, feeds, and seeds) ( <i>same acts</i> )-----  | 2,700.00  |   |
| (60) Three laborers, at \$840 each ( <i>same acts</i> )-----  | 2,520.00  |   |
| (61) Six laborers, at \$720 each ( <i>same acts</i> )-----  | 4,320.00  |   |
| (62) Four laborers, at \$660 each ( <i>same acts</i> )-----   | 2,640.00  |   |
| (63) Five laborers, at \$600 each ( <i>same acts</i> )-----   | 3,000.00  |   |
| (64) Two laborers, at \$540 each ( <i>same acts</i> )-----  | 1,080.00  |   |
| (65) Three messengers, at \$900 each (by transfer from lump funds, 1 from marketing and distributing farm products, and 2 from collecting and distributing market information) ( <i>same acts</i> )-----  | 2,700.00  |   |
| (66) Two messengers, at \$720 each (increase of 1 by transfer from lump fund for dairy and poultry products) ( <i>same acts</i> )----   | 1,440.00  |   |
| (67) 【Ten messengers, at \$540 each, changed to 10 messenger boys, at \$540 each】   |   |   |
| NOTE.—This change in designation and that under item 68 are recommended in order to correct an error made when the estimates for 1920 were submitted. These places were originally intended for messenger boys and the salaries carried by the positions are too low to permit their utilization for the employment of messengers or laborers.  |   |   |
| (68) 【One messenger, \$480, changed to 1 messenger boy, \$480】  |   |   |
| NOTE.—See note under item 67.   |   |   |
| (69) Ten messenger boys, at \$600 each (increase of 4 by transfer from lump funds for market reports on live stock and meats, dairy and poultry products, market inspection of perishable foods, and grain standards act) ( <i>same acts</i> )---   | 6,000.00  |   |
| (70) Fifteen messenger boys, at \$540 each (increase of 10 in lieu of 10 messengers, at \$540 each) ( <i>same acts</i> )-----   | 8,100.00  |   |
| NOTE.—See note under item 67.   |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

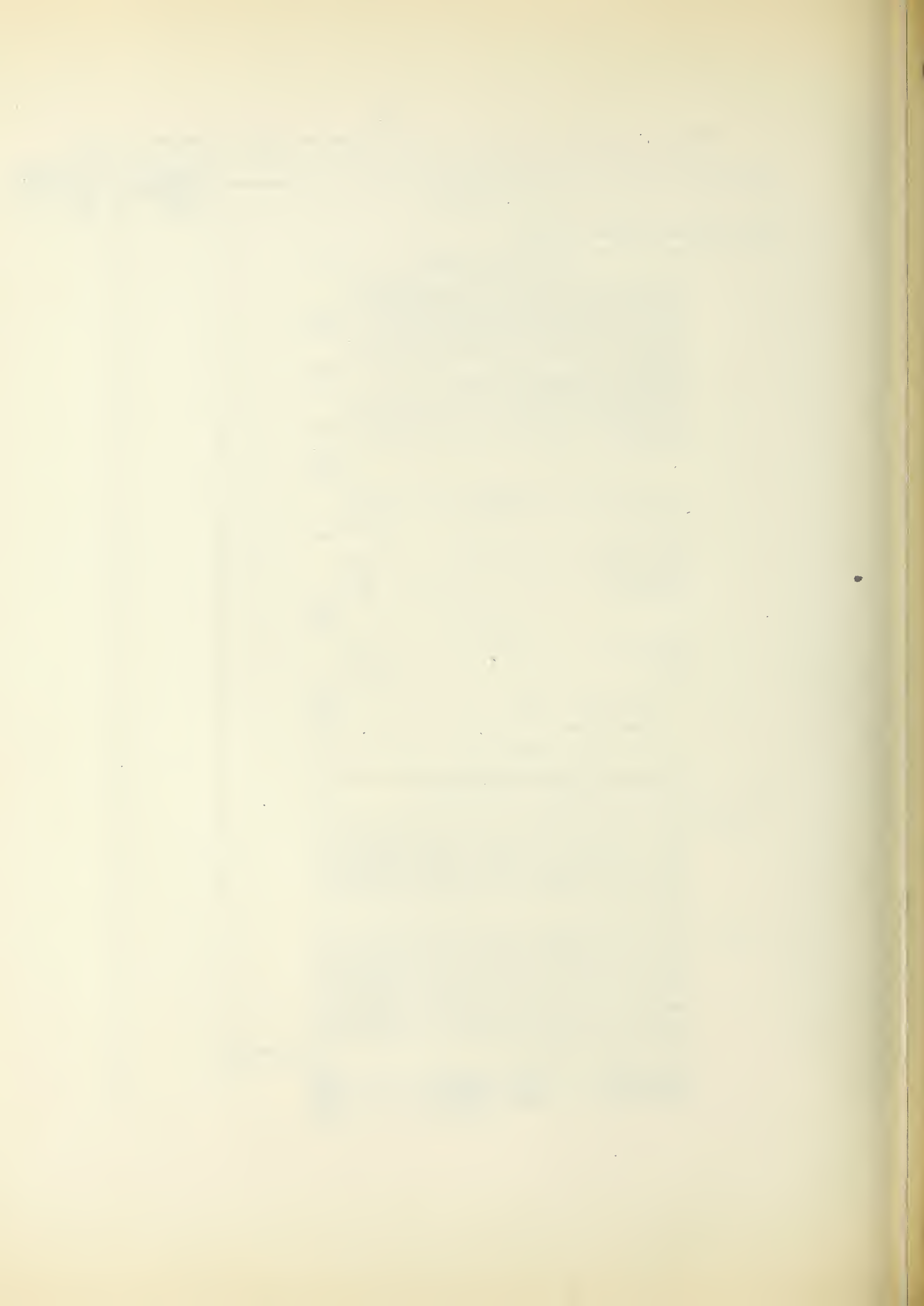
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated, for the fiscal year ending June 30, 1920. |
|---|---|--|
| <i>Salaries, Bureau of Markets—Continued.</i>   |   |  |
| (71) Twenty-four messengers boys, at \$480 each (increase of 3, 2 by transfer from lump fund for marketing and distributing farm products and 1 in lieu of 1 messenger, \$480) ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, p. 264, sec. 1</i> ).....  | \$11, 520. 00   |  |
| NOTE.—See note under item 67.   |   |  |
| (72) Three messenger boys, at \$420 each ( <i>same acts</i> ).....  | 1, 260. 00  |  |
| (73) One messenger boy ( <i>same acts</i> ).....  | 360. 00   |  |
| (74) One messenger boy ( <i>same acts</i> ).....  | 300. 00   |  |
| (75) One charwoman ( <i>same acts</i> ).....  | 540. 00   |  |
| (76) Six charwomen, at \$480 each ( <i>same acts</i> ).....   | 2, 880. 00  |  |
| (77) Six charwomen, at \$300 each ( <i>same acts</i> ).....   | 1, 800. 00  |  |
| (78) Nine charwomen, at \$240 each ( <i>same acts</i> ).....  | 2, 160. 00  |  |
|   | \$802, 270. 00  | \$671, 810. 00   |
| Appropriation for 1916..... \$56, 400    Estimate for 1916..... \$51, 120<br>Appropriation for 1917..... 129, 880    Estimate for 1917..... 134, 980<br>Appropriation for 1918..... 197, 820    Estimate for 1918..... 198, 420<br>Appropriation for 1919..... 387, 850    Estimate for 1919..... 387, 850<br>Appropriation for 1920..... 671, 810    Estimate for 1920..... 739, 290<br> |   |  |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Bureau of Markets—Continued.</i>   |   |   |
| <i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced—Continued.</i>   |   |   |
| 8 machine operators, at \$900 each, 3 from marketing and distributing farm products, 2 from collecting and distributing market information, 1 from dairy and poultry products, 1 from cotton standards investigations, and 1 from grain standards act.  | \$7,200   |   |
| 1 skilled laborer, from grain, hay, feed, and seeds.  | 900   |   |
| 3 messengers, at \$900 each, 1 from marketing and distributing farm products and 2 from collecting and distributing market information.   | 2,700   |   |
| 1 messenger, from dairy and poultry products.   | 720   |   |
| 4 messenger boys, at \$600 each, 1 from market reports on live stock and meats, 1 from dairy and poultry products, 1 from market inspection of perishable foods, and 1 from grain standards act.  | 2,400   |   |
| 2 messenger boys, at \$480 each, from marketing and distributing farm products.   | 960   |   |
|   | 131,760   |   |
| <i>Transfers to statutory roll, Bureau of Farm Management and Farm Economics.</i>   |   |   |
| 1 clerk, class 2.   | \$1,400   |   |
| 2 clerks, class 1.  | 2,400   |   |
|   | 3,800   |   |
| <i>Places dropped.</i>  |   |   |
| 2 clerks, at \$720 each.  | 1,440   |   |
| 1 laboratory aid.   | 840   |   |
| 1 laboratory aid.   | 720   |   |
| 1 map tracer.   | 600   |   |
|   | 3,600   |   |
|   | 7,400   |   |
| <i>New places.</i>  |   |   |
| 1 clerk, class 2.   | 1,400   |   |
| 3 clerks, class 1.  | 3,600   |   |
| 1 clerk.  | 1,100   |   |
|   | 6,100   |   |
| Actual decrease.  | 1,300   |   |
| Apparent increase.  | 130,460   |   |
| <i>Change of title.</i>   |   |   |
| 10 messengers, at \$540 each, changed to 10 messenger boys, at \$540 each.  |   |   |
| 1 messenger, \$480, changed to 1 messenger boy, \$480.  |   |   |
| <i>General Expenses, Bureau of Markets—</i>   |   |   |
| (79) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and all other expenses necessary in conducting investigations, experiments, and demonstrations, as follows ( <i>acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1</i> ):  |   |   |
| (80) For acquiring and diffusing among the people of the United States useful information on subjects connected with the marketing and distributing of farm and nonmanufactured food products and the purchasing of farm supplies, independently and in cooperation with other branches of the department, State agencies, purchasing and consuming organizations, and persons engaged in the transportation, marketing, and distributing of farm and food products |   |   |
| <b>【\$317,520】</b> ( <i>same acts</i> )   | \$347,980.00  |   |
| Appropriation for 1916.   | \$238,000   | Estimate for 1916.  |
| Appropriation for 1917.   | 285,000   | Estimate for 1917.  |
| Appropriation for 1918.   | 289,400   | Estimate for 1918.  |
| Appropriation for 1919.   | 292,240   | Estimate for 1919.  |
| Appropriation for 1920.   | 317,520   | Estimate for 1920.  |
|   |   | Estimate for 1921.  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>  |   |   |
| <p>NOTE.—There is an apparent increase in the above item of \$30,460, but taking into consideration transfers to the statutory roll aggregating \$14,540, the actual increase is \$45,000. This amount, if allowed, will be used as follows:</p> <p>(a) \$15,000 for investigating the marketing of wool. The situation in the wool industry makes it necessary that some steps be taken to enable wool producers, distributors, and manufacturers to conduct their operations on a more satisfactory basis. Since approximately half of the wool supply of this country is imported and the bulk of American wool is produced in the Central and Western States, while the manufacturing industries are located almost wholly in the North Atlantic seaboard States, and because no organized central markets exist, it is of special importance that adequate current market information be made available to all interests concerned in the wool trade. The determination and establishment of official standard wool classes and grades is fundamental to the development of systematic market reports. Through the courtesy of the War Department approximately 7,000 type samples of wool, representing the 1918 clip purchased by the Government from all sections of the United States, have been assembled by the Bureau of Markets for the purpose of determining tentative market standards. If the funds requested are granted, tests will be made to determine the shrinkage of wools from all sections in order to guide growers and buyers in regard to grease values of wools, on which accurate information now is lacking. Assistance and information should be given in regard to better methods of handling wool and as to cooperative and other methods of marketing, and investigations should be conducted as a basis for further urgently necessary work along these lines.</p> <p>(b) \$30,000 for extending the investigations regarding the preservation of fruits and vegetables. During the war emergency funds made available by the Food Production Act amounting to approximately \$180,000 were available for the prosecution of these investigations, and much valuable work was commenced which had to be discontinued at the close of the last fiscal year. The investigational staff was reduced from 69 to 6, the men retained being those qualified to reestablish the important work discontinued on June 30. The nucleus of a staff is thus at hand and, if this increase is granted, will be used to organize an effective force to resume the study of the important problems involved in the following lines of work:</p> <p><i>Refrigerator and heater cars for protecting perishables.</i>—During the past year tests have been made to secure fundamental data for designing an efficient heater car. Such a car has been designed, and, could the work be carried on for two or three more seasons, it would be possible to make definite recommendations for its construction to meet practical shipping conditions. At the present time no work is being done on refrigerator cars, and these investigations should be reestablished.</p> <p><i>Loading cars efficiently.</i>—Very serious losses from breakage and deterioration constantly result from improper methods of loading, stowing, and bracing fruits and vegetables for shipment. It is important to prosecute this work further so that specific recommendations may be made to cover the loading of all crops in different sections.</p> <p><i>Handling fruits and vegetables in marketing.</i>—This project has shown how and why careful handling prevents deterioration in transit; yet there is a marked tendency at the present time, due principally to the shortage of labor, to lower the standards established, resulting in an increase in decay and deterioration in transit of fruits and vegetables. Demonstrations of careful handling should be taken up again and prosecuted with vigor.</p> <p><i>Fruit and vegetable storage.</i>—Experiments concerning the construction of fruit and vegetable storage houses have been practically discontinued, though the improvements effected in the storage of fruits and vegetables as a result of this work have been of far-reaching importance. Many other permanent improvements might be made if work already done could be confirmed by sufficient experimental tests.</p> <p><i>Freezing storage.</i>—A comparatively new line of work regarding the preservation of fruits and vegetables by freezing was begun with emergency funds, and fundamental data were obtained as a background for practical demonstrations. Commercial interests have already started to utilize such freezing processes and should be intelligently guided. Further investigation of this subject should be undertaken, but lack of funds makes it necessary to hold the work in abeyance during the current year.</p> |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                     |                              | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|---------------------|------------------------------|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>   |            |                     |                              |   |   |
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.           |   |   |
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>               |   |   |
| Specialists.....per annum..   | \$4,500.00 | ..                  | 2 (temp.)                    |   |   |
| Specialist.....do.....  | 4,000.00   | ..                  | 1 (temp.)                    |   |   |
| Specialists.....do.....   | 3,780.00   | 2                   | ..                           |   |   |
| Specialist.....do.....  | 3,750.00   | ..                  | 1 (pt. time)                 |   |   |
| Specialists.....do.....   | 3,600.00   | 1                   | 2 (1 pt. time)               |   |   |
| Specialist.....do.....  | 3,250.00   | 1                   | ..                           |   |   |
| Specialists.....do.....   | 3,240.00   | 2                   | 2 (1 pt. time)               |   |   |
| Specialists.....do.....   | 3,000.00   | 1                   | 7 (pt. time)                 |   |   |
| Specialists.....do.....   | 2,760.00   | 3 (1 new)           | 1                            |   |   |
| Specialist.....do.....  | 2,750.00   | ..                  | 1 (pt. time)                 |   |   |
| Specialist.....do.....  | 2,580.00   | ..                  | 1 (pt. time)                 |   |   |
| Specialist.....do.....  | 2,400.00   | ..                  | 1 (pt. time)                 |   |   |
| Specialist.....do.....  | 2,040.00   | 1                   | ..                           |   |   |
| Agricultural trade commissioner.....do.....   | 3,600.00   | 1                   | ..                           |   |   |
| Pomologist.....do.....  | 3,500.00   | ..                  | 1 (temp.)                    |   |   |
| Pomologist.....do.....  | 3,240.00   | 1                   | ..                           |   |   |
| Pomologist.....do.....  | 3,000.00   | ..                  | 1 (pt. time)                 |   |   |
| Refrigeration technologist.....do.....  | 2,760.00   | ..                  | 1 (pt. time)                 |   |   |
| Investigators.....do.....   | 3,000.00   | ..                  | 3                            |   |   |
| Investigator.....do.....  | 2,880.00   | 1                   | ..                           |   |   |
| Investigator.....do.....  | 2,760.00   | ..                  | 1 (temp.)                    |   |   |
| Investigators.....do.....   | 2,700.00   | 1                   | 2 (1 pt. time;<br>1 temp.)   |   |   |
| Investigator.....do.....  | 2,520.00   | 1                   | ..                           |   |   |
| Investigators.....do.....   | 2,500.00   | 2                   | 2 (pt. time)                 |   |   |
| Investigators.....do.....   | 2,400.00   | 8 (3 new)           | 3 (1 pt. time;<br>1 temp.)   |   |   |
| Investigators.....do.....   | 2,280.00   | 3                   | 2 (pt. time)                 |   |   |
| Investigator.....do.....  | 2,250.00   | 1                   | 1 (pt. time)                 |   |   |
| Investigators.....do.....   | 2,100.00   | 3 (new)             | 3 (2 pt. time;<br>1 temp.)   |   |   |
| Investigators.....do.....   | 2,040.00   | 4                   | 2 (pt. time)                 |   |   |
| Investigators.....do.....   | 2,000.00   | 2 (new)             | 3 (2 pt. time;<br>1 temp.)   |   |   |
| Investigator.....do.....  | 1,920.00   | ..                  | 1 (temp.)                    |   |   |
| Investigators.....do.....   | 1,800.00   | 3                   | 3 (1 pt. time)               |   |   |
| Investigator.....do.....  | 1,680.00   | ..                  | 1 (pt. time)                 |   |   |
| Investigator.....do.....  | 1,620.00   | ..                  | 1 (temp.)                    |   |   |
| Investigator.....do.....  | 1,500.00   | 1 (pt. time)        | ..                           |   |   |
| Grain supervisor.....do.....  | 3,240.00   | ..                  | 1 (pt. time)                 |   |   |
| Grain supervisor.....do.....  | 2,520.00   | ..                  | 1 (temp.)                    |   |   |
| Grain supervisor.....do.....  | 2,500.00   | ..                  | 1 (pt. time)                 |   |   |
| Assistant.....do.....   | 3,300.00   | ..                  | 1 (pt. time)                 |   |   |
| Assistant.....do.....   | 2,580.00   | 1                   | 1 (pt. time)                 |   |   |
| Assistants.....do.....  | 2,520.00   | 1                   | 2 (1 pt. time)               |   |   |
| Assistants.....do.....  | 2,400.00   | 9                   | 9 (5 pt. time;<br>1 temp.)   |   |   |
| Assistants.....do.....  | 2,280.00   | 2                   | 3 (1 pt. time;<br>1 temp.)   |   |   |
| Assistants.....do.....  | 2,220.00   | 2                   | 2 (1 pt. time;<br>1 temp.)   |   |   |
| Assistants.....do.....  | 2,100.00   | 3                   | ..                           |   |   |
| Assistants.....do.....  | 2,040.00   | 2                   | 8 (7 pt. time;<br>1 temp.)   |   |   |
| Assistants.....do.....  | 2,000.00   | 3                   | 2 (pt. time)                 |   |   |
| Assistants.....do.....  | 1,980.00   | 1                   | 2 (pt. time)                 |   |   |
| Assistant.....do.....   | 1,920.00   | ..                  | 1 (pt. time)                 |   |   |
| Assistant.....do.....   | 1,860.00   | ..                  | 1 (pt. time)                 |   |   |
| Assistants.....do.....  | 1,800.00   | 13 (3 new)          | 17 (10 pt. time;<br>3 temp.) |   |   |
| Assistants.....do.....  | 1,680.00   | 1                   | 4 (3 pt. time)               |   |   |
| Assistants.....do.....  | 1,620.00   | 4                   | 14 (10 pt. time)             |   |   |
| Assistants.....do.....  | 1,600.00   | 1                   | 2 (1 pt. time)               |   |   |
| Assistants.....do.....  | 1,500.00   | 2                   | 3 (1 pt. time;<br>2 temp.)   |   |   |
| Assistants.....do.....  | 1,440.00   | 1                   | 4 (2 pt. time;<br>1 temp.)   |   |   |
| Assistant.....do.....   | 1,400.00   | 1                   | 1 (pt. time)                 |   |   |
| Assistants.....do.....  | 1,200.00   | 1                   | 2 (temp.)                    |   |   |
| Horticulturist.....do.....  | 2,000.00   | ..                  | 1 (pt. time)                 |   |   |
| Market reporters.....do.....  | 2,000.00   | 2 (new)             | 1 (pt. time)                 |   |   |
| Market reporter.....do.....   | 1,860.00   | ..                  | 1 (pt. time)                 |   |   |
| Agent.....do.....   | 1,800.00   | ..                  | 1 (temp.)                    |   |   |
| Agent.....do.....   | 1,000.00   | 1 (pt. time)        | ..                           |   |   |
| Clerk.....do.....   | 2,250.00   | ..                  | 1 (pt. time)                 |   |   |
| Clerks.....do.....  | 2,000.00   | ..                  | 2                            |   |   |
| Clerk.....do.....   | 1,800.00   | ..                  | 1 (pt. time)                 |   |   |
| Clerks.....do.....  | 1,600.00   | ..                  | 2 (1 temp.)                  |   |   |
| Clerks.....do.....  | 1,400.00   | ..                  | 3 (1 pt. time;<br>1 temp.)   |   |   |
| Clerks.....do.....  | 1,200.00   | 1 (new)             | 23 (8 pt. time;<br>13 temp.) |   |   |
| Clerks.....do.....  | 1,100.00   | ..                  | 8 (4 pt. time;<br>temp.)     |   |   |
| Clerks.....do.....  | 1,080.00   | ..                  | 3 temp.                      |   |   |
| Clerks.....do.....  | 1,000.00   | ..                  | 8 (4 pt. time;<br>4 temp.)   |   |   |
| Draftsman.....do.....   | 1,400.00   | ..                  | 1                            |   |   |
| Superintendent of telegraph.....do.....   | 2,000.00   | ..                  | 1 (pt. time)                 |   |   |
| Telegraph operator.....do.....  | 1,600.00   | ..                  | 1 (pt. time)                 |   |   |
| Telegraph operators.....do.....   | 1,400.00   | ..                  | 5 (pt. time)                 |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Markets—Continued.*

| Employees.  | Rate.      | Estimated,<br>1921.             | Expended,<br>1919.                             |
|---|------------|---------------------------------|--|
| Salaries—Continued.   |            |                                 |  |
| Agents, collaborator, clerk,<br>messengers, operatives,<br>watchmen and charwomen,<br>\$900 to \$1.....per annum..... |            | <i>Number.</i><br>28(27pt.time) | <i>Number.</i><br>22 (4 pt. time;<br>10 temp.) |
| Wages:  |            |                                 |  |
| Wireman .....do.....  | \$1,290.00 | ..                              | 1 (pt. time)                                   |
| Miscellaneous temporary la-<br>borers, \$6 to \$4.....per diem.....   |            | ..                              | 3 (temp.)                                      |
|   |            | 123                             | 221  |
| Salaries.....   |            | \$216,690.00                    | \$165,796.64                                   |
| Wages.....  |            |                                 | 275.00   |
| Other objects of expenditure:   |            |                                 |  |
| Stationery.....   |            | 8,105.00                        | 5,988.64                                       |
| Traveling expenses.....   |            | 51,685.00                       | 36,132.64                                      |
| Equipment and material.....   |            | 26,205.00                       | 1,688.52                                       |
| Telephone and telegraph service.....  |            | 4,490.00                        | 1,660.40                                       |
| Miscellaneous items.....  |            | 40,805.00                       | 20,062.30                                      |
| Total.....  |            | 347,980.00                      | 231,604.14                                     |

- (81) For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, commercial movement, disposition, and market prices of fruits and vegetables **["\$250,000"]** (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1*)..... \$269,600.00

|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1917..... | \$136,600 | Estimate for 1917..... | \$136,600 |
| Appropriation for 1918..... | 184,740   | Estimate for 1918..... | 184,740   |
| Appropriation for 1919..... | 196,660   | Estimate for 1919..... | 221,660   |
| Appropriation for 1920..... | 250,000   | Estimate for 1920..... | 304,660   |
|                             |           | Estimate for 1921..... | 269,600   |

NOTE.—There is an apparent increase in the above item of \$19,600, but taking into consideration transfers to the statutory roll aggregating \$30,400, the actual increase is \$50,000.

With an appropriation of \$500,000 made available by the food production act, it was possible to expand this work greatly during the fiscal year 1919. As these funds were withdrawn on July 1, 1919, and an increase of only \$172,120 provided in the agricultural appropriation act for conducting this news service during the current fiscal year, the work necessarily had to be greatly curtailed. If the increase of \$50,000 recommended in these estimates is granted, these funds will be used largely to re-establish the service on the Pacific coast, to reopen and operate an office at Fort Worth, and to increase the number of field stations operated during shipping seasons. If any further increase is made in telegraph rates, however, this program will have to be modified.

The market news service is particularly useful to the western districts, which are located at great distances from the chief market outlets. Without it they will be deprived of official information on conditions prevailing in the markets of the East and will be forced to rely on such information as may be supplied by the trade. Rapid telegraph communication is fundamental to the successful operation of a daily market news service on highly perishable crops. The market reports must reach the interested persons promptly or the information contained in them is valueless. With the greatly reduced organization such a program is not possible in many very important producing sections.



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                             | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-----------------------------|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>   |            |                  |                             |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.             |   |   |
| <b>Salaries:</b>  |            | <i>Number.</i>   | <i>Number.</i>              |   |   |
| Specialist.....per annum..  | \$3,720.00 | 1                | 1 (pt. time)                |   |   |
| Specialist.....do.....  | 3,000.00   | ..               | 1 (temp.)                   |   |   |
| Investigators.....do.....   | 2,520.00   | 1                | 2 (pt. time)                |   |   |
| Investigator.....do.....  | 2,400.00   | ..               | 1 (temp.)                   |   |   |
| Investigator.....do.....  | 2,280.00   | 1                | 1                           |   |   |
| Investigator.....do.....  | 2,220.00   | ..               | 1 (temp.)                   |   |   |
| Investigators.....do.....   | 1,800.00   | 3                | 5 (4 pt. time)              |   |   |
| Investigator.....do.....  | 1,740.00   | 1                | 1 (pt. time)                |   |   |
| Investigator.....do.....  | 1,620.00   | ..               | 1                           |   |   |
| Assistants.....do.....  | 2,400.00   | 2                | ..                          |   |   |
| Assistants.....do.....  | 2,100.00   | 3                | ..                          |   |   |
| Assistants.....do.....  | 2,040.00   | 4                | 1 (pt. time)                |   |   |
| Assistants.....do.....  | 1,980.00   | 2                | 1 (pt. time)                |   |   |
| Assistant.....do.....   | 1,920.00   | ..               | 1 (pt. time)                |   |   |
| Assistants.....do.....  | 1,860.00   | 1                | 2 (pt. time)                |   |   |
| Assistants.....do.....  | 1,800.00   | 8                | 9 (5 pt. time; 2 temp.)     |   |   |
| Assistants.....do.....  | 1,760.00   | 1                | ..                          |   |   |
| Assistants.....do.....  | 1,680.00   | 5                | 3 (2 pt. time)              |   |   |
| Assistants.....do.....  | 1,620.00   | 9                | 14 (8 pt. time; 3 temp.)    |   |   |
| Assistants.....do.....  | 1,560.00   | ..               | 1                           |   |   |
| Assistants.....do.....  | 1,500.00   | 4                | 2 (pt. time)                |   |   |
| Assistants.....do.....  | 1,440.00   | 1                | 3 (1 pt. time; 1 temp.)     |   |   |
| Assistants.....do.....  | 1,400.00   | 1                | 2 (1 pt. time)              |   |   |
| Assistant.....do.....   | 1,200.00   | 1                | ..                          |   |   |
| Administrative assistant.....do.....  | 3,000.00   | ..               | 1 (pt. time)                |   |   |
| Clerk.....do.....   | 2,000.00   | ..               | 1 (pt. time)                |   |   |
| Clerk.....do.....   | 1,800.00   | ..               | 1 (pt. time)                |   |   |
| Clerk.....do.....   | 1,600.00   | ..               | 1 (pt. time)                |   |   |
| Clerk.....do.....   | 1,320.00   | ..               | 1 (temp.)                   |   |   |
| Clerks.....do.....  | 1,200.00   | ..               | 22 (11 part time; 6 temp.)  |   |   |
| Clerks.....do.....  | 1,100.00   | ..               | 9 (6 pt. time; 1 temp.)     |   |   |
| Clerks.....do.....  | 1,080.00   | ..               | 2 (1 pt. time; 1 temp.)     |   |   |
| Clerk.....do.....   | 1,020.00   | ..               | 1 (temp.)                   |   |   |
| Clerks.....do.....  | 1,000.00   | ..               | 7 (6 temp.)                 |   |   |
| Superintendent of telegraph.....do.....   | 2,000.00   | ..               | 1 (pt. time)                |   |   |
| Telegraph operator.....do.....  | 1,600.00   | ..               | 1 (pt. time)                |   |   |
| Telegraph operator.....do.....  | 1,520.00   | ..               | 1 (temp.)                   |   |   |
| Telegraph operators.....do.....   | 1,400.00   | ..               | 26 (4 pt. time; 16 temp.)   |   |   |
| Telegraph operators.....do.....   | 1,320.00   | ..               | 2                           |   |   |
| Telegraph operators.....do.....   | 1,200.00   | ..               | 31 (pt. time; 1 temp.)      |   |   |
| Clerks, operatives, telegraph operators, and messengers, \$960 to \$480.....do.....   | ..         | ..               | 41 (12 part time; 24 temp.) |   |   |
| <b>Wages:</b>   |            |                  |                             |   |   |
| Wireman.....do.....   | 1,100.00   | ..               | 1 (temp.)                   |   |   |
| Miscellaneous temporary labor—\$6 to \$2.....per diem.....  | ..         | ..               | 8                           |   |   |
|   |            | 49               | 183                         |   |   |
| Salaries.....   |            | \$89,860.00      | \$108,033.98                |   |   |
| Wages.....  |            |                  | 1,426.17                    |   |   |
| <b>Other objects of expenditure:</b>  |            |                  |                             |   |   |
| Stationery.....   |            | 20,260.00        | 2,848.03                    |   |   |
| Traveling expenses.....   |            | 23,460.00        | 10,620.52                   |   |   |
| Equipment and material.....   |            | 4,500.00         | 2,940.03                    |   |   |
| Telephone and telegraph service.....  |            | 109,340.00       | 39,767.58                   |   |   |
| Miscellaneous items.....  |            | 22,180.00        | 19,616.01                   |   |   |
| <b>Total.....</b>   |            | 269,600.00       | 185,252.32                  |   |   |

- (82) [To enable the Secretary of Agriculture to carry into effect until their termination the provisions of the proclamations of the President of June 18 and September 6, 1918, and the regulations thereunder, relating to the stockyards industry, including the employment of such persons as the Secretary of Agriculture may deem necessary, in the District of Columbia and elsewhere, \$75,000.]

NOTE.—This item is carried in the Agricultural appropriation act for the fiscal year 1920 for the purpose of enabling the Secretary of Agriculture to carry into effect, until their termination, the provisions of the proclamations of the President of June 18 and Sept. 6, 1918, and regulations thereunder, relating to the stockyards industry. In view of the fact that the authority for this work expires upon the proclamation of peace, the appropriation has been omitted from the estimates.



| Date | Description | Debit | Credit | Balance |
|------|-------------|-------|--------|---------|
| 1890 | Jan 1       |       |        | 100.00  |
| 1891 | Feb 1       | 50.00 |        | 50.00   |
| 1892 | Mar 1       | 25.00 |        | 25.00   |
| 1893 | Apr 1       | 10.00 |        | 15.00   |
| 1894 | May 1       | 75.00 |        | 40.00   |
| 1895 | Jun 1       | 30.00 |        | 10.00   |
| 1896 | Jul 1       | 15.00 |        | -5.00   |
| 1897 | Aug 1       | 10.00 |        | -15.00  |
| 1898 | Sep 1       | 5.00  |        | -20.00  |
| 1899 | Oct 1       | 20.00 |        | -40.00  |
| 1900 | Nov 1       | 10.00 |        | -50.00  |
| 1901 | Dec 1       | 5.00  |        | -55.00  |
| 1902 | Jan 1       |       | 55.00  | 0.00    |
| 1903 | Feb 1       | 10.00 |        | -10.00  |
| 1904 | Mar 1       | 5.00  |        | -15.00  |
| 1905 | Apr 1       | 15.00 |        | -30.00  |
| 1906 | May 1       | 10.00 |        | -40.00  |
| 1907 | Jun 1       | 5.00  |        | -45.00  |
| 1908 | Jul 1       | 10.00 |        | -55.00  |
| 1909 | Aug 1       | 5.00  |        | -60.00  |
| 1910 | Sep 1       | 10.00 |        | -70.00  |
| 1911 | Oct 1       | 5.00  |        | -75.00  |
| 1912 | Nov 1       | 10.00 |        | -85.00  |
| 1913 | Dec 1       | 5.00  |        | -90.00  |
| 1914 | Jan 1       |       | 90.00  | 0.00    |
| 1915 | Feb 1       | 10.00 |        | -10.00  |
| 1916 | Mar 1       | 5.00  |        | -15.00  |
| 1917 | Apr 1       | 15.00 |        | -30.00  |
| 1918 | May 1       | 10.00 |        | -40.00  |
| 1919 | Jun 1       | 5.00  |        | -45.00  |
| 1920 | Jul 1       | 10.00 |        | -55.00  |
| 1921 | Aug 1       | 5.00  |        | -60.00  |
| 1922 | Sep 1       | 10.00 |        | -70.00  |
| 1923 | Oct 1       | 5.00  |        | -75.00  |
| 1924 | Nov 1       | 10.00 |        | -85.00  |
| 1925 | Dec 1       | 5.00  |        | -90.00  |

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
|--|---|---|-----------------------------|--------|-----------------------------|--------|-----------------------------|---------|---|------------------------|----------|------------------------|--------|------------------------|--------|------------------------|---------|------------------------|---------|--|
| <i>General Expenses, Bureau of Markets—Continued.</i>  |   |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| <p>(83) To enable the Secretary of Agriculture to gather from stockmen, live-stock associations, State live-stock and agricultural boards, common carriers, stockyards, commission firms, live-stock exchanges, slaughtering and meat-packing companies, and others information relative to the number of different classes and grades of marketable live stock, especially cattle, hogs, and sheep in the principal live-stock feeding districts and growing sections; prices, receipts, and shipments of the different classes and grades of cattle, hogs, and sheep at live-stock market centers; prices of meats, fish, and meat and fish food products and the amounts of such products in storage; to compile and publish such information at such frequent intervals as most effectively to guide producers, consumers, and distributors in the sale and purchase of live stock, meats, fish, and other animal products; and to gather and publish any related information pertaining to marketing and distribution of live stock, meats, fish, and animal by-products, the sum of <b>[\$105,320]</b> (<i>acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec 1</i>) ----- <b>\$139, 320. 00</b></p> |   |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| <table> <tr> <td>Appropriation for 1917.....</td> <td>\$65,000</td> </tr> <tr> <td>Appropriation for 1918.....</td> <td>66,800</td> </tr> <tr> <td>Appropriation for 1919.....</td> <td>57,920</td> </tr> <tr> <td>Appropriation for 1920.....</td> <td>105,320</td> </tr> </table>  | Appropriation for 1917.....                                       | \$65,000  | Appropriation for 1918..... | 66,800 | Appropriation for 1919..... | 57,920 | Appropriation for 1920..... | 105,320 | <table> <tr> <td>Estimate for 1917.....</td> <td>\$65,000</td> </tr> <tr> <td>Estimate for 1918.....</td> <td>66,800</td> </tr> <tr> <td>Estimate for 1919.....</td> <td>71,120</td> </tr> <tr> <td>Estimate for 1920.....</td> <td>152,720</td> </tr> <tr> <td>Estimate for 1921.....</td> <td>139,320</td> </tr> </table> | Estimate for 1917..... | \$65,000 | Estimate for 1918..... | 66,800 | Estimate for 1919..... | 71,120 | Estimate for 1920..... | 152,720 | Estimate for 1921..... | 139,320 |  |
| Appropriation for 1917.....  | \$65,000  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Appropriation for 1918.....  | 66,800  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Appropriation for 1919.....  | 57,920  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Appropriation for 1920.....  | 105,320   |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Estimate for 1917.....   | \$65,000  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Estimate for 1918.....   | 66,800  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Estimate for 1919.....   | 71,120  |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Estimate for 1920.....   | 152,720   |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |
| Estimate for 1921.....   | 139,320   |   |                             |        |                             |        |                             |         |   |                        |          |                        |        |                        |        |                        |         |                        |         |  |

NOTE.—There is an apparent increase in the above item of \$34,000, but taking into consideration transfers to the statutory roll aggregating \$16,000, the actual increase is \$50,000.

With an appropriation of \$300,000 under the Food Production Act, the market news service on live stock and meats was materially extended during the fiscal year 1919, but it was necessary to discontinue much of the work made possible by the use of these emergency funds upon their withdrawal on July 1, 1919, as the regular appropriation act for 1920 carried an increase of only \$100,000 for its support. If the increase of \$50,000 recommended in these estimates is approved, it is proposed to reopen the branch offices, probably in Denver, Fort Worth, and San Francisco, and to reestablish leased-wire connections therewith. This program can not be fully carried out, however, if any further increase is made in telegraph rates.

| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919.        |
|--|------------|---------------------|---------------------------|
|  |            | <i>Number.</i>      | <i>Number.</i>            |
| Salaries:  |            |                     |                           |
| Specialist.....per annum..   | \$3,600.00 | 1                   | ..                        |
| Supervisor.....do....  | 1,920.00   | 1                   | ..                        |
| Assistant.....do....   | 2,760.00   | 1                   | ..                        |
| Assistants.....do....  | 2,580.00   | 2                   | ..                        |
| Assistants.....do....  | 2,400.00   | 2                   | ..                        |
| Assistant.....do....   | 2,340.00   | 1                   | ..                        |
| Assistant.....do....   | 2,300.00   | 1                   | ..                        |
| Assistants.....do....  | 2,220.00   | 2                   | 1 (pt. time)              |
| Assistants.....do....  | 2,000.00   | 2                   | ..                        |
| Assistant.....do....   | 2,160.00   | 1                   | ..                        |
| Assistant.....do....   | 2,100.00   | 1                   | ..                        |
| Assistants.....do....  | 2,040.00   | 3                   | 3 (pt. time)              |
| Assistant.....do....   | 1,980.00   | 1                   | ..                        |
| Assistants.....do....  | 1,800.00   | 3                   | 1 (pt. time)              |
| Assistants.....do....  | 1,620.00   | 3                   | 1 (pt. time)              |
| Assistant.....do....   | 1,500.00   | 1                   | ..                        |
| Assistant.....do....   | 1,440.00   | 1                   | 1 (pt. time)              |
| Assistant.....do....   | 1,400.00   | 1                   | 1                         |
| Clerk.....do....   | 1,600.00   | ..                  | 1 (pt. time)              |
| Clerks.....do....  | 1,320.00   | ..                  | 3 (pt. time)              |
| Clerks.....do....  | 1,200.00   | ..                  | 5 (1pt. time;<br>4 temp.) |
| Clerks.....do....  | 1,100.00   | ..                  | 3 (1pt. time;<br>2 temp.) |
| Clerks.....do....  | 1,000.00   | ..                  | 4 (2pt. time;<br>1 temp.) |
| Clerks, messenger, and watchman, \$900 per annum to \$0.40..per hour.. | ..         | ..                  | 5 (2pt. time;<br>3 temp.) |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Markets—Continued.*

| Employees.                           | Rate.      | Estimated, 1921. | Expended, 1919. |
|--------------------------------------|------------|------------------|-----------------|
| Salaries—Continued.                  |            | <i>Number.</i>   | <i>Number.</i>  |
| Telegraph operator.....per annum..   | \$1,560.00 | ..               | 1 (temp.)       |
| Telegraph operators.....do.....      | 1,400.00   | ..               | 3 (1 temp.)     |
| Telegraph operators.....do.....      | 1,200.00   | ..               | 2 (1 temp.)     |
| Wages:                               |            |                  |                 |
| Laborer.....per hour..               | .25        | ..               | 1 (temp.)       |
|                                      |            | 28               | 36              |
| Salaries.....                        |            | \$58,280.00      | \$23,243.80     |
| Wages.....                           |            |                  | 26.96           |
| Other objects of expenditure:        |            |                  |                 |
| Stationery.....                      |            | 9,000.00         | 8,174.28        |
| Traveling expenses.....              |            | 12,000.00        | 5,164.13        |
| Equipment and material.....          |            | 5,600.00         | 3,317.47        |
| Telephone and telegraph service..... |            | 46,180.00        | 2,114.67        |
| Miscellaneous items.....             |            | 8,260.00         | 5,636.49        |
| Total.....                           |            | 139,320.00       | 47,677.80       |

- (84) For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, demand, commercial movement, disposition, quality, and market prices of dairy and poultry products **[\$80,600]** (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1*) \$69,780.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1920..... | \$80,600 | Estimate for 1920..... | \$80,600 |
|                             |          | Estimate for 1921..... | 69,780   |

NOTE.—There is an apparent decrease in the above item of \$10,820, due to transfers to the statutory roll.

| Employees.                           | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|--------------------------------------|------------|------------------|------------------------------|
| Salaries:                            |            | <i>Number.</i>   | <i>Number.</i>               |
| Specialist.....per annum..           | \$3,240.00 | 1                | ..                           |
| Supervising inspector.....do.....    | 3,000.00   | 1                | ..                           |
| Assistants.....do.....               | 2,400.00   | 2                | ..                           |
| Assistant.....do.....                | 2,220.00   | 1                | ..                           |
| Assistants.....do.....               | 2,100.00   | 2                | ..                           |
| Assistant.....do.....                | 1,980.00   | 1                | ..                           |
| Assistants.....do.....               | 1,970.00   | 2                | ..                           |
| Assistant.....do.....                | 1,800.00   | 1                | ..                           |
| Assistant.....do.....                | 1,680.00   | 1                | ..                           |
|                                      |            | 14               | ..                           |
| Salaries.....                        |            | \$26,760.00      | ..                           |
| Other objects of expenditure:        |            |                  |                              |
| Stationery.....                      |            | 4,000.00         | ..                           |
| Traveling expenses.....              |            | 8,380.00         | ..                           |
| Equipment and material.....          |            | 6,810.00         | ..                           |
| Telephone and telegraph service..... |            | 20,440.00        | ..                           |
| Miscellaneous items.....             |            | 3,390.00         | ..                           |
| Total.....                           |            | 69,780.00        | ..                           |

<sup>1</sup> No appropriation for fiscal year 1919.

- (85) For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, demand, commercial movement, location, disposition, quality, and market prices of grain, hay, feeds, and seeds **[\$50,000]** (*same acts*)..... 44,600.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1920..... | \$50,000 | Estimate for 1920..... | \$41,560 |
|                             |          | Estimate for 1921..... | 44,600   |

NOTE.—There is an apparent decrease in the above item of \$5,400, due to transfers to the statutory roll.





Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

General Expenses, Bureau of Markets—Continued.

| Employees.                           | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|--------------------------------------|------------|------------------|------------------------------|
| Salaries:                            |            | Number.          | Number.                      |
| Investigator.....per annum..         | \$2,520.00 | 1                | .....                        |
| Investigator.....do.....             | 1,980.00   | 1                | .....                        |
| Investigator.....do.....             | 1,800.00   | 1                | .....                        |
| Assistant.....do.....                | 2,100.00   | 1                | .....                        |
| Assistant.....do.....                | 1,830.00   | 3                | .....                        |
| Assistant.....do.....                | 1,680.00   | 1                | .....                        |
| Assistant.....do.....                | 1,620.00   | 1                | .....                        |
| Assistant.....do.....                | 1,500.00   | 2                | .....                        |
| Assistant.....do.....                | 1,400.00   | 1                | .....                        |
| Assistant.....do.....                | 1,230.00   | 1                | .....                        |
|                                      |            | 13               | .....                        |
| Salaries.....                        |            | \$22,700.00      | .....                        |
| Other objects of expenditure:        |            |                  |                              |
| Stationery.....                      |            | 14,000.00        | .....                        |
| Traveling expenses.....              |            | 5,850.00         | .....                        |
| Equipment and material.....          |            | 500.00           | .....                        |
| Telephone and telegraph service..... |            | 1,000.00         | .....                        |
| Miscellaneous items.....             |            | 550.00           | .....                        |
| Total.....                           |            | 44,690.00        | .....                        |

<sup>1</sup> No appropriation for fiscal year 1919.

- (86) To make investigation relating to the transportation, storage, preparation, marketing, manufacture, and distribution of agricultural food products, including the extent, manner, and methods of any manipulation of the markets or control of the visible supply of such food products, or any of them, by any individuals, groups, associations, combinations, or corporations **["\$48,800"]** (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1*)..... \$45,620.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1918..... | \$50,000 | Estimate for 1918..... | \$50,000 |
| Appropriation for 1919..... | 48,800   | Estimate for 1919..... | 48,800   |
| Appropriation for 1920..... | 48,800   | Estimate for 1920..... | 48,600   |
|                             |          | Estimate for 1921..... | 45,620   |

NOTE.—There is an apparent decrease in the above item of \$3,180, due to transfers to the statutory roll of this bureau aggregating \$2,100 and the transfer of 1 fireman at \$1,080 to the statutory roll of the Office of the Secretary.

| Employees.                                       | Rate.      | Estimated, 1921. | Expended, 1919.         |
|--|------------|------------------|-------------------------|
| Salaries:  |            | Number.          | Number.                 |
| Specialist.....per annum..                       | \$3,500.00 | ..               | 1 (pt. time)            |
| Grain supervisor.....do.....                     | 3,000.00   | ..               | 1 (pt. time)            |
| Investigator.....do.....                         | 3,000.00   | 1                | .....                   |
| Investigator.....do.....                         | 2,400.00   | 1                | .....                   |
| Investigator.....do.....                         | 1,920.00   | 1                | .....                   |
| Assistant.....do.....                            | 3,000.00   | ..               | 1 (temp.)               |
| Assistant.....do.....                            | 2,500.00   | ..               | 1 (pt. time)            |
| Assistant.....do.....                            | 2,040.00   | 1                | 1 (temp.)               |
| Assistant.....do.....                            | 1,980.00   | ..               | 1 (pt. time)            |
| Assistants.....do.....                           | 1,800.00   | 5                | 3(2 pt. time)           |
| Assistants.....do.....                           | 1,200.00   | 5 (temp.)        | ..                      |
| Clerk.....do.....                                | 1,600.00   | ..               | 1 (pt. time)            |
| Clerks.....do.....                               | 1,200.00   | ..               | 2(1 pt. time)           |
| Clerks.....do.....                               | 1,100.00   | ..               | 13(6 pt. time; 7 temp.) |
| Photographic assistant.....do.....               | 1,200.00   | ..               | 1 (pt. time)            |
| Clerks and messenger, \$960 to \$864.....do..... | ..         | ..               | 11 (temp.)              |
| Wages:   |            |                  |                         |
| Firemen.....per diem..                           | 3.36       | ..               | 2 (temp.)               |
|  |            | 14               | 39                      |
| Salaries.....                                    |            | \$22,360.00      | \$13,336.85             |
| Wages.....                                       |            |                  | 461.68                  |
| Other objects of expenditure:                    |            |                  |                         |
| Stationery.....                                  |            | 200.00           | 20.75                   |
| Traveling expenses.....                          |            | 13,400.00        | 7,736.93                |
| Equipment and material.....                      |            | 670.00           | 162.09                  |
| Telephone and telegraph service.....             |            | 300.00           | 49.50                   |
| Miscellaneous items.....                         |            | 8,690.00         | 5,586.89                |
| Total.....                                       |            | 45,620.00        | 27,354.69               |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

## General Expenses, Bureau of Markets—Continued.

- (87) For collecting and distributing, by telegraph, mail, and otherwise, information on the supply, demand, commercial movement, disposition, quality, and market price of peanuts, and their products (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1*)..... \$12,000. 00

Appropriation for 1920..... \$12,000      Estimate for 1921..... \$12,000

| Employees.                           | Rate.       | Estimated, 1921. | Expended, 1919. <sup>1</sup> |
|--------------------------------------|-------------|------------------|------------------------------|
|                                      |             | Number.          | Number.                      |
| Salaries:                            |             |                  |                              |
| Investigator..... per annum.....     | \$2,400. 00 | 1                | .....                        |
| Assistants.....do.....               | 2,040. 00   | 1                | .....                        |
| Assistants.....do.....               | 1,800. 00   | 1                | .....                        |
|                                      |             | 3                | .....                        |
| Salaries.....                        |             | \$6,240. 00      | .....                        |
| Other objects of expenditure:        |             |                  |                              |
| Stationery.....                      |             | 2,000. 00        | .....                        |
| Traveling expenses.....              |             | 2,000. 00        | .....                        |
| Telephone and telegraph service..... |             | 1,000. 00        | .....                        |
| Miscellaneous items.....             |             | 760. 00          | .....                        |
| Total.....                           |             | 12,000. 00       | .....                        |

<sup>1</sup> No appropriation for fiscal year 1919.

- (88) For enabling the Secretary of Agriculture to investigate and certify to shippers and other interested parties the quality and condition of fruits, vegetables, poultry, butter, hay, and other perishable farm products, when received in interstate commerce at such important central markets as the Secretary of Agriculture may from time to time designate, under such rules and regulations as he may prescribe, including payment of such fees as will be reasonable and as nearly as may be to cover the cost for the service rendered: *Provided*, That certificates issued by the authorized agents of the department shall be received in all courts of the United States as prima facie evidence of the truth of the statements therein contained [ \$150,000 ] (*same acts*)..... 191,700. 00

Appropriation for 1919..... \$113,000      Estimate for 1919..... \$113,000  
Appropriation for 1920..... 150,000      Estimate for 1920..... 201,960  
Estimate for 1921..... 191,700

NOTE.—There is an apparent increase in the above item of \$41,700, but taking into consideration transfers to the statutory roll aggregating \$8,300, the actual increase is \$50,000, which amount, if granted, will be used for extending the following projects:

(a) \$15,000 for inspection of butter. At present it is possible to allot to butter-inspection work only a very modest sum. Inspections are now made in Boston, New York, Philadelphia, Chicago, and Minneapolis. With the additional funds requested, it should be possible to place butter inspectors in San Francisco, Portland, Seattle, and Los Angeles, or at other necessary points. Urgent demands for butter inspection have been received from the Pacific coast, as the dairy industry there is growing rapidly and increasing quantities of dairy products are being shipped to eastern markets. The creameries and shippers in the region are greatly handicapped in making contracts based upon official butter grades on account of the absence of reliable inspectors to interpret and apply such grades.

(b) \$35,000 for inspection of hay. There is urgent need for a hay-inspection service. Recognizing this fact, the Congress, in the appropriation for the current fiscal year, broadened the scope of the work to include hay among the list of commodities to be inspected. Since no additional funds were provided and no hay standards have been established, however, it has been impossible so far for the bureau to take up this work. It is believed that the establishment of standards to be used in connection with an inspection service would accomplish a great deal of good. The marketing of hay is a very hazardous undertaking on account of the possibility of losses due to sharp practices, misunderstandings, lack of inspection, variation in grades in different markets, differences in the manner in which rules for grading are interpreted, etc. It is estimated that nine-tenths of the losses sustained in the hay business is due to a lack of standard grades and a uniform, impartial inspection service. If this work is undertaken, inspectors will be stationed in Chicago, Cincinnati, St. Louis, Kansas City, Oklahoma City, and other markets of equal importance.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|----------------------------|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>   |            |                  |                            |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.            |   |   |
| Salaries:   |            | Number.          | Number.                    |   |   |
| Specialist.....per annum.....   | \$3,750.00 | 1                | 1 (pt. time)               |   |   |
| Supervisor of inspection.....do.....  | 3,000.00   | 1                | 3 (1 pt. time)             |   |   |
| Supervising inspectors.....do.....  | 3,000.00   | 2                | 1 (pt. time)               |   |   |
| Supervising inspector.....do.....   | 2,260.00   | 1                | 1 (pt. time)               |   |   |
| Assistant supervisor.....do.....  | 2,760.00   | 1 (new)          | 2 (temp.)                  |   |   |
| Investigators.....do.....   | 2,280.00   | 1                | 13 (10 pt. times; 1 temp.) |   |   |
| Investigator.....do.....  | 2,220.00   | 1                | 1 (pt. time)               |   |   |
| Investigator.....do.....  | 2,160.00   | 1                | 1 (pt. time)               |   |   |
| Investigator.....do.....  | 2,100.00   | 1                | 2 (pt. time)               |   |   |
| Investigators.....do.....   | 2,040.00   | 1                | 13 (10 pt. times; 1 temp.) |   |   |
| Investigators.....do.....   | 2,000.00   | 7                | 8 (6 pt. time; 2 temp.)    |   |   |
| Investigator.....do.....  | 1,980.00   | 1                | 2 (1 pt. time)             |   |   |
| Investigator.....do.....  | 1,920.00   | 1                | 3 (2 pt. time; 1 temp.)    |   |   |
| Investigator.....do.....  | 1,900.00   | 1                | 3 (2 pt. time)             |   |   |
| Investigators.....do.....   | 1,800.00   | 1                | 9 (4 pt. time; 1 temp.)    |   |   |
| Investigator.....do.....  | 1,680.00   | 1                | 6 (4 pt. time; 1 temp.)    |   |   |
| Investigators.....do.....   | 1,500.00   | 1                | 5 (3 pt. time)             |   |   |
| Inspector.....do.....   | 2,400.00   | 1 (new)          | 13 (1 pt. time; 12 temp.)  |   |   |
| Inspectors.....do.....  | 2,000.00   | 8 (new)          |                            |   |   |
| Inspectors.....do.....  | 1,980.00   | 5                |                            |   |   |
| Inspectors.....do.....  | 1,800.00   | 6 (1 new)        |                            |   |   |
| Inspectors.....do.....  | 1,680.00   | 2                |                            |   |   |
| Inspector.....do.....   | 1,620.00   | 1                |                            |   |   |
| Assistant.....do.....   | 2,500.00   | 1                |                            |   |   |
| Assistants.....do.....  | 2,040.00   | 1                |                            |   |   |
| Assistant.....do.....   | 2,000.00   | 1                |                            |   |   |
| Assistant.....do.....   | 1,880.00   | 1                |                            |   |   |
| Assistants.....do.....  | 1,860.00   | 9                |                            |   |   |
| Assistants.....do.....  | 1,800.00   | 1                |                            |   |   |
| Assistants.....do.....  | 1,680.00   | 3                |                            |   |   |
| Assistant.....do.....   | 1,620.00   | 1                |                            |   |   |
| Assistants.....do.....  | 1,600.00   | 3                |                            |   |   |
| Assistants.....do.....  | 1,500.00   | 4                |                            |   |   |
| Assistant.....do.....   | 1,440.00   | 1                |                            |   |   |
| Clerks.....do.....  | 1,200.00   | 4 (new)          |                            |   |   |
| Clerks.....do.....  | 1,100.00   | 1                |                            |   |   |
| Clerks.....do.....  | 1,000.00   | 1                |                            |   |   |
| Clerks and messengers, \$960 to \$540.....do.....   |            |                  |                            |   |   |
|   |            | 109              | 99                         |   |   |
| Salaries.....   |            | \$130,180.00     | \$75,276.50                |   |   |
| Other objects of expenditure:   |            |                  |                            |   |   |
| Stationery.....   | 2,000.00   |                  | 732.33                     |   |   |
| Traveling expenses.....   | 29,290.00  |                  | 12,214.69                  |   |   |
| Equipment and material.....   | 13,000.00  |                  | 3,025.77                   |   |   |
| Telephone and telegraph service.....  | 4,400.00   |                  | 1,120.84                   |   |   |
| Miscellaneous items.....  | 12,830.00  |                  | 10,142.17                  |   |   |
| Total.....  |            | 191,700.00       | 102,512.30                 |   |   |

- (89) For investigating, demonstrating, and promoting the use of standards for the different grades, qualities, and conditions of cotton, and for investigating the ginning, grading, stapling, baling, marking, compressing, and tare of cotton [ \$45,920 ], \$43,920: *Provide* 1. That of the sum thus appropriated [ \$26,930 ] \$25,860 may be used for testing the waste, tensile strength, and bleaching qualities of the different grades and classes of cotton in order to determine their spinning value and for demonstrating the results of such tests (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 234-236, sec. 1*) ..... \$43,920.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1911..... | \$33,650 | Estimate for 1912..... | \$32,350 |
| Appropriation for 1912..... | 32,350   | Estimate for 1913..... | 25,000   |
| Appropriation for 1913..... | 26,000   | Estimate for 1914..... | 39,120   |
| Appropriation for 1914..... | 46,120   | Estimate for 1915..... | 46,120   |
| Appropriation for 1915..... | 70,000   | Estimate for 1916..... | 88,900   |
| Appropriation for 1916..... | 55,480   | Estimate for 1917..... | 54,100   |
| Appropriation for 1917..... | 48,000   | Estimate for 1918..... | 53,000   |
| Appropriation for 1918..... | 48,000   | Estimate for 1919..... | 45,920   |
| Appropriation for 1919..... | 45,920   | Estimate for 1920..... | 45,920   |
| Appropriation for 1920..... | 45,920   | Estimate for 1921..... | 43,920   |

NOTE.—There is an apparent decrease in the above item of \$2,000 and a reduction in the subitem for cotton testing, due to transfers to the statutory roll.



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            |                     |                    | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|---------------------|--------------------|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>  |            |                     |                    |   |   |
| COTTON STANDARDS INVESTIGATIONS.   |            |                     |                    |   |   |
| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |   |   |
| Salaries:  |            | <i>Number.</i>      | <i>Number.</i>     |   |   |
| Specialist.....per annum..   | \$3,000.00 | ..                  | 1 (pt. time)       |   |   |
| Specialist.....do.....   | 2,760.00   | ..                  | 1 (pt. time)       |   |   |
| Specialist.....do.....   | 2,400.00   | ..                  | 1 (temp.)          |   |   |
| Specialist.....do.....   | 2,040.00   | ..                  | 1 (pt. time)       |   |   |
| Investigator.....do.....   | 2,400.00   | ..                  | 1 (pt. time)       |   |   |
| Investigator.....do.....   | 2,280.00   | ..                  | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 2,400.00   | 1                   | ..                 |   |   |
| Assistant.....do.....  | 2,280.00   | 1                   | ..                 |   |   |
| Assistant.....do.....  | 2,200.00   | 1                   | ..                 |   |   |
| Assistant.....do.....  | 1,980.00   | 1                   | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 1,860.00   | ..                  | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 1,080.00   | ..                  | 1 (temp.)          |   |   |
| Clerk.....per diem.....  | 4.00       | ..                  | 1 (temp.)          |   |   |
| Wages:   |            |                     |                    |   |   |
| Fireman.....do.....  | 3.36       | ..                  | 1 (temp.)          |   |   |
|  |            | 4                   | 11                 |   |   |
| Salaries.....  |            | \$8,860.00          | \$9,289.32         |   |   |
| Wages.....   |            |                     | 991.20             |   |   |
| Other objects of expenditure:  |            |                     |                    |   |   |
| Stationery.....  |            | 300.00              | 66.82              |   |   |
| Traveling expenses.....  |            | 3,240.00            | 3,651.21           |   |   |
| Equipment and material.....  |            | 4,800.00            | 26.70              |   |   |
| Telephone and telegraph service.....   |            | 300.00              | 51.37              |   |   |
| Miscellaneous items.....   |            | 560.00              | 2,144.87           |   |   |
| Total.....   |            | 18,060.00           | 16,221.49          |   |   |
| COTTON TESTING.  |            |                     |                    |   |   |
| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |   |   |
| Salaries:  |            | <i>Number.</i>      | <i>Number.</i>     |   |   |
| Specialists.....per annum..  | \$3,000.00 | ..                  | 2 (pt. time)       |   |   |
| Specialist.....do.....   | 2,040.00   | ..                  | 1 (pt. time)       |   |   |
| Investigators.....do.....  | 2,400.00   | ..                  | 2 (pt. time)       |   |   |
| Investigator.....do.....   | 2,280.00   | ..                  | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 2,760.00   | 1                   | ..                 |   |   |
| Assistant.....do.....  | 2,400.00   | 1                   | ..                 |   |   |
| Assistants.....do.....   | 2,200.00   | 1                   | 2                  |   |   |
| Assistants.....do.....   | 2,060.00   | 1                   | 2 (temp.)          |   |   |
| Assistant.....do.....  | 1,980.00   | ..                  | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 1,800.00   | 1                   | ..                 |   |   |
| Assistant.....do.....  | 1,620.00   | 1                   | 1 (pt. time)       |   |   |
| Assistant.....do.....  | 1,500.00   | ..                  | 1                  |   |   |
| Clerk.....do.....  | 2,250.00   | ..                  | 1 (pt. time)       |   |   |
| Clerk.....do.....  | 900.00     | ..                  | 1 (temp.)          |   |   |
| Wages:   |            |                     |                    |   |   |
| Laborer.....do.....  | 660.00     | ..                  | 1 (temp.)          |   |   |
|  |            | 6                   | 16                 |   |   |
| Salaries.....  |            | \$12,780.00         | \$10,794.59        |   |   |
| Wages.....   |            |                     | 102.67             |   |   |
| Other objects of expenditure:  |            |                     |                    |   |   |
| Stationery.....  |            | 150.00              | 99.45              |   |   |
| Traveling expenses.....  |            | 2,030.00            | 892.98             |   |   |
| Equipment and material.....  |            | 1,150.00            | 584.93             |   |   |
| Telephone and telegraph.....   |            | 100.00              | 40.77              |   |   |
| Miscellaneous items.....   |            | 9,650.00            | 13,240.71          |   |   |
| Total.....   |            | 25,860.00           | 25,756.10          |   |   |
| (90) [To enable the Secretary of Agriculture to make studies of cooperation among farmers in the United States; to diffuse among the people of the United States useful information growing out of these studies, in order to provide a basis for a broader utilization of results secured by the research, experimental, and demonstration work of the Department of Agriculture, agricultural colleges, and State experiment stations, \$15,780] |            |                     |                    |   |   |
| NOTE.—Provision has been made in the estimates of the Bureau of Farm Management and Farm Economics for the work now conducted under this item. It has, therefore, been omitted.  |            |                     |                    |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Bureau of Markets—Continued.*

- (91) To enable the Secretary of Agriculture to cooperate with the several States in the employment of agents to acquire and diffuse useful information connected with the distribution and marketing of farm products through investigational, demonstrational, or extension methods **[\$77,750]** (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1*) .....\$100, 000. 00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1917..... | \$35,000 | Estimate for 1917..... | \$35,000 |
| Appropriation for 1918..... | 43,000   | Estimate for 1918..... | 51,600   |
| Appropriation for 1919..... | 61,500   | Estimate for 1919..... | 61,500   |
| Appropriation for 1920..... | 77,750   | Estimate for 1920..... | 94,960   |
|                             |          | Estimate for 1921..... | 100,000  |

NOTE.—There is an apparent increase in the above item of \$22,250, but taking into consideration transfers to the statutory roll aggregating \$4,400, the actual increase is \$26,650.

The department is now cooperating in marketing work with 23 States. If this increase is allowed, it will be used to expand the work in 5 of these States and to begin cooperation in 13 additional States, from which repeated requests for assistance have been received. If this program is carried out, the department will be engaged in cooperative marketing work in 36 States. The extended scope of the cooperation will necessitate the employment of a field supervisor for the Western States and some increases for travel and miscellaneous expenses. This project provides a most valuable means of coordinating and standardizing the marketing work undertaken by the Federal Government and various State agencies. It affords an excellent opportunity for developing a broad and consistent marketing policy through which improvements may be effected. There are special marketing problems in each State which demand and should receive special attention. The State authorities have welcomed this work and in most instances make larger contributions to its maintenance than does the Federal Government

| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.           |
|---|------------|---------------------|------------------------------|
| <b>Salaries:</b>  |            | <i>Number.</i>      | <i>Number.</i>               |
| Specialist.....per annum..  | \$2,760.00 | ..                  | 1                            |
| Assistant.....do.....   | 2,760.00   | 1                   | 1                            |
| Assistant.....do.....   | 2,640.00   | ..                  | 1 (temp.).                   |
| Assistants.....do.....  | 2,500.00   | 2                   | 1                            |
| Assistant.....do.....   | 2,400.00   | 1                   | ..                           |
| Assistant.....do.....   | 2,160.00   | 1                   | ..                           |
| Assistant.....do.....   | 2,100.00   | 1                   | ..                           |
| Assistant.....do.....   | 2,040.00   | ..                  | 1                            |
| Assistant.....do.....   | 2,000.00   | 1                   | 3                            |
| Agent.....do.....   | 2,500.00   | ..                  | 1                            |
| Agents.....do.....  | 2,400.00   | ..                  | 2 (1 temp.).                 |
| Agent.....do.....   | 1,980.00   | 1                   | 1                            |
| Agent.....do.....   | 1,940.00   | ..                  | 1 (pt. time).                |
| Agents.....do.....  | 1,800.00   | 11 (5 new).         | 7 (1 pt. time;<br>1 temp.).  |
| Agents.....do.....  | 1,700.00   | 2                   | ..                           |
| Agents.....do.....  | 1,500.00   | 12 (4 new).         | 7 (2 temp.).                 |
| Agent.....do.....   | 1,350.00   | ..                  | 1                            |
| Agent.....do.....   | 1,260.00   | ..                  | 1                            |
| Agents.....do.....  | 1,200.00   | 16 (5 new).         | 7                            |
| Agent.....do.....   | 1,020.00   | 1                   | 1                            |
| Agent.....do.....   | 1,000.00   | 1                   | 1                            |
| Administrative assistant.....do.....  | 2,100.00   | ..                  | 1                            |
| Clerk.....do.....   | 1,400.00   | ..                  | 1                            |
| Clerks.....do.....  | 1,200.00   | ..                  | 3 (2 temp.).                 |
| Agents, collaborator, messenger,<br>and charwoman, \$800 to \$100.....do..... |            | 15 (1 new).         | 21 (2 pt. time;<br>9 temp.). |
|   |            | 69                  | 64                           |
| Salaries.....   |            | \$86,180.00         | \$47,193.00                  |
| <b>Other objects or expenditure:</b>  |            |                     |                              |
| Stationery.....   |            | 1,300.00            | 1,215.40                     |
| Traveling expenses.....   |            | 8,000.00            | 3,708.92                     |
| Equipment and material.....   |            | 1,000.00            | 623.39                       |
| Telegraph and telephone service.....  |            | 750.00              | 165.51                       |
| Miscellaneous items.....  |            | 2,770.00            | 1,596.65                     |
| <b>Total.....</b>   |            | <b>100,000.00</b>   | <b>54,502.87</b>             |

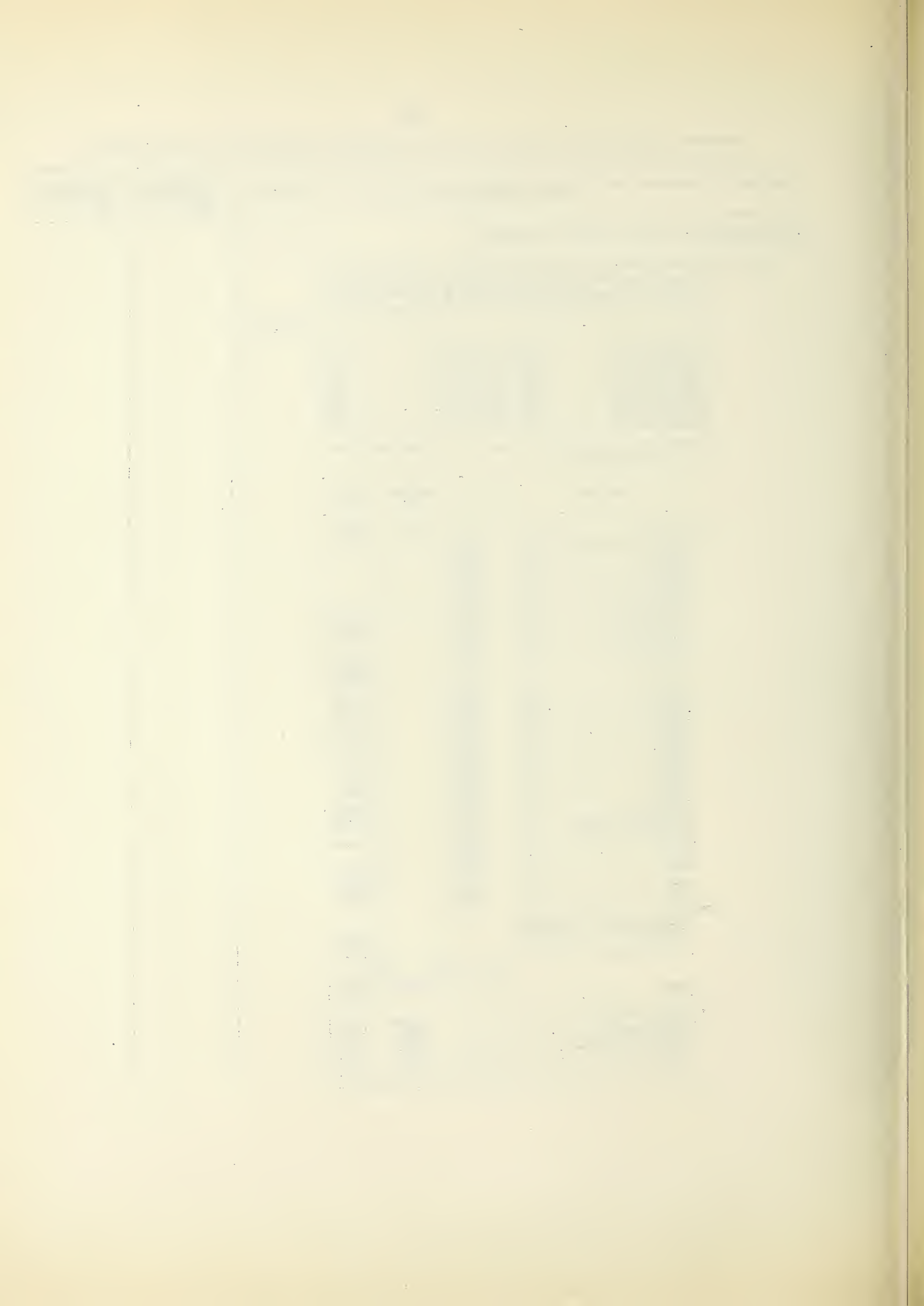




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|---|---|
| <i>General Expenses, Bureau of Markets—Continued.</i>  |            |   |   |
| (92) For investigating the handling, grading, and transportation of grain, including the grain sorghums, for the purpose of fixing definite grades thereof <b>[\$86,050]</b> (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264-266, sec. 1) ..... |            |   | \$81, 150. 00   |
| Appropriation for 1911.....  | \$51,020   | Estimate for 1912.....  | \$57,080  |
| Appropriation for 1912.....  | 57,080     | Estimate for 1913.....  | 55,640  |
| Appropriation for 1913.....  | 55,640     | Estimate for 1914.....  | 75,640  |
| Appropriation for 1914.....  | 65,000     | Estimate for 1915.....  | 76,320  |
| Appropriation for 1915.....  | 76,320     | Estimate for 1916.....  | 72,920  |
| Appropriation for 1916.....  | 72,920     | Estimate for 1917.....  | 109,920   |
| Appropriation for 1917.....  | 88,770     | Estimate for 1918.....  | 106,590   |
| Appropriation for 1918.....  | 106,590    | Estimate for 1919.....  | 92,750  |
| Appropriation for 1919.....  | 92,750     | Estimate for 1920.....  | 86,050  |
| Appropriation for 1920.....  | 86,050     | Estimate for 1921.....  | 81,150  |
| NOTE.—There is a decrease in the above item of \$4,900, due to transfers to the statutory roll.  |            |   |   |
| Employees.   | Rate.      | Estimated, 1912.  | Expended, 1919.   |
| Salaries:  |            | Number.   | Number.   |
| Rice specialist.....per annum..  | \$4,500.00 | ..  | 1 (temp.)   |
| Expert in grain standardization.....do..   | 3,000.00   | ..  | 1 (pt. time)  |
| Civil engineer.....do..  | 3,000.00   | 1   | 1   |
| Specialist.....do..  | 2,500.00   | 1   | 1   |
| Specialists.....do..   | 2,400.00   | 2   | ..  |
| Specialist.....do..  | 2,280.00   | ..  | 1   |
| Specialist.....do..  | 2,100.00   | ..  | 1   |
| Grain supervisor.....do..  | 3,240.00   | 1   | ..  |
| Grain supervisor.....do..  | 2,975.00   | ..  | 1 (pt. time)  |
| Grain supervisor.....do..  | 2,760.00   | ..  | 1   |
| Grain supervisor.....do..  | 2,700.00   | ..  | 1 (pt. time)  |
| Grain supervisors.....do..   | 2,500.00   | 1   | 2 (pt. time)  |
| Grain supervisors.....do..   | 2,280.00   | ..  | 2 (pt. time)  |
| Grain supervisor.....do..  | 1,920.00   | ..  | 1   |
| Grain supervisor.....do..  | 1,800.00   | ..  | 1 (pt. time)  |
| Grain supervisors.....do..   | 1,800.00   | ..  | 4 (3 pt. time; 1 temp.)                                       |
| Investigator.....do..  | 2,400.00   | ..  | 1 (pt. time)  |
| Investigator.....do..  | 2,280.00   | 1   | 1   |
| Investigator.....do..  | 2,220.00   | 1   | 1 (pt. time)  |
| Assistant.....do..   | 2,100.00   | 1   | 1 (pt. time)  |
| Assistants.....do..  | 1,980.00   | 3   | ..  |
| Assistants.....do..  | 1,850.00   | 2   | 1 (pt. time)  |
| Assistants.....do..  | 1,800.00   | 5   | 3 (1 pt. time)  |
| Assistant.....do..   | 1,680.00   | 1   | 1   |
| Assistants.....do..  | 1,620.00   | 2   | 3 (2 pt. time)  |
| Assistants.....do..  | 1,500.00   | 1   | 4 (2 temp.)   |
| Assistants.....do..  | 1,440.00   | 1   | 7   |
| Assistant.....do..   | 1,400.00   | ..  | 1 (pt. time)  |
| Assistant.....do..   | 1,320.00   | ..  | 1 (temp.)   |
| Assistant.....do..   | 1,200.00   | ..  | 3 (temp.)   |
| Assistant.....do..   | 1,020.00   | 1   | ..  |
| Grain samplers.....do..  | 1,500.00   | ..  | 2 (1 pt. time)  |
| Grain sampler.....do..   | 1,440.00   | ..  | 1 (pt. time)  |
| Aids in grain standardization.....do..   | 1,200.00   | 1   | 2 (1 temp.)   |
| Aids in grain standardization.....do..   | 1,140.00   | 1   | 1   |
| Clerk.....do..   | 1,980.00   | ..  | 1 (pt. time)  |
| Clerk.....do..   | 1,800.00   | ..  | 1   |
| Clerk.....do..   | 1,600.00   | ..  | 1   |
| Clerks.....do..  | 1,200.00   | ..  | 10 (2 pt. time; 8 temp.)                                      |
| Clerks.....do..  | 1,080.00   | ..  | 2 (temp.)   |
| Clerks.....do..  | 1,020.00   | ..  | 4 (1 temp.)   |
| Clerks.....do..  | 1,000.00   | ..  | 5 (4 temp.)   |
| Wages:   |            |   |   |
| Assistant aid in grain standization, clerks, messengers, and charwomen, \$950 to \$240.....per annum..   |            | 1   | 14 (9 temp.; 1 pt. time)                                      |
| Laborers, \$900 to \$300.....do..  |            | ..  | 5 (temp.)   |
|  |            | 28  | 102   |
| Salaries.....  |            | \$53,480.00   | \$52,562.23   |
| Wages.....   |            |   | 1,934.00  |
| Other objects of expenditure:  |            |   |   |
| Stationery.....  |            | 1,000.00  | 498.80  |
| Traveling expenses.....  |            | 14,000.00   | 17,210.09   |
| Equipment and material.....  |            | 5,000.00  | 1,364.76  |
| Telephone and telegraph service.....   |            | 1,500.00  | 416.87  |
| Miscellaneous items.....   |            | 6,170.00  | 5,440.82  |
| Total.....   |            | 81,150.00   | 79,427.57   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <b>General Expenses, Bureau of Markets—Continued.</b>   |   |   |
| (93) To enable the Secretary of Agriculture to carry into effect the act entitled "An act to fix standards for Climax baskets for grapes and other fruits and vegetables, and to fix standards for baskets and other containers for small fruits, berries, and vegetables, and for other purposes," approved August 31, 1916, including the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere <b>[\$3,800]</b> (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; July 24, 1919, vol. 41, pp. 264–266, sec. 1) ----- | \$4,800.00  |   |
| Appropriation for 1918..... \$4,000      Estimate for 1918..... \$4,000<br>Appropriation for 1919..... 5,000      Estimate for 1919..... 5,000<br>Appropriation for 1920..... 3,800      Estimate for 1920..... 3,800<br>   |   |   |

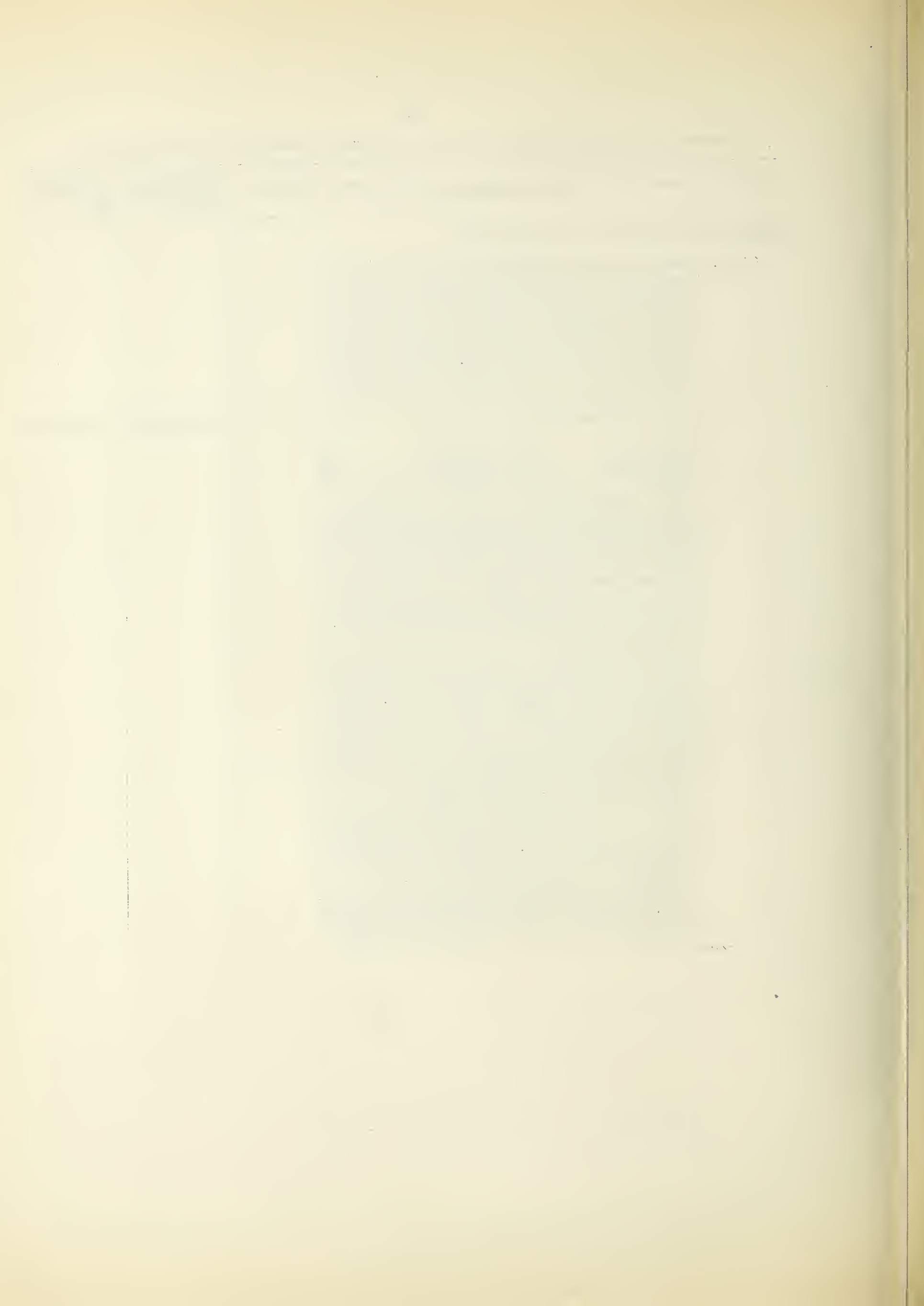




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |
|--|---|---|------------------------|-----------|-----------------------------|---------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|--------------|--------------|
| <p><i>Enforcement of the United States Cotton-Futures Act—</i></p> <p>(95) To enable the Secretary of Agriculture to carry into effect the provisions of the United States cotton-futures act, as amended Mar. 4, 1919, including all expenses necessary for the purchase of equipment and supplies; for travel; for the employment of persons in the city of Washington and elsewhere; and for all other expenses, including rent outside of the District of Columbia, that may be necessary in executing the provisions of this act <b>[\$131,780]</b> \$198,920 (acts May 23, 1908, vol. 35, p. 256, sec. 1; June 30, 1914, vol. 38, p. 422, sec. 1; Aug. 18, 1914, vol. 38, pp. 693–698, secs. 1–21; Mar. 4, 1915, vol. 38, p. 1112, sec. 1; July 24, 1919, vol. 41, p. 266, sec. 1) -----</p> <table><tr><td>Appropriation for 1916.....</td><td>\$75,000</td><td>Estimate for 1917.....</td><td>\$120,750</td></tr><tr><td>Appropriation for 1917.....</td><td>120,750</td><td>Estimate for 1918.....</td><td>98,600</td></tr><tr><td>Appropriation for 1918.....</td><td>98,600</td><td>Estimate for 1919.....</td><td>88,580</td></tr><tr><td>Appropriation for 1919.....</td><td>113,580</td><td>Estimate for 1920.....</td><td>131,780</td></tr><tr><td>Appropriation for 1920.....</td><td>131,780</td><td>Estimate for 1921.....</td><td>198,920</td></tr></table> <p>NOTE.—There is an apparent increase in the above item of \$67,140, but taking into consideration transfers to the statutory roll of this bureau aggregating \$5,400, and the transfer of one fireman at \$1,080 to the statutory roll of the Office of the Secretary, the actual increase is \$73,620. However, as 5 clerks, with salaries aggregating \$6,100, have been transferred to the statutory roll from the appropriation "Classification of cotton, wheat price guaranty act," for work in connection with the classification of cotton, the total increase is \$79,720. Inasmuch as the wheat price guaranty act of Mar. 4, 1919, contained amendments to the cotton-futures act, to carry out the purposes of which an allotment of \$100,000 was set aside by the President from the funds provided for administration of the wheat price guaranty act, the amount requested for the enforcement of the cotton-futures act during 1921 represents an actual decrease of \$20,280 in the funds available for this work.</p> <p>The amendments referred to required the department, among other things, to classify all cotton delivered on the future exchanges at New York and New Orleans on future contracts entered into on and after Mar. 4, 1919, and provided that all moneys collected as costs for such classification could be used as a revolving fund by the department. In the opinion of the solicitor of this department, this revolving fund will be permanent, despite the fact that the wheat price guaranty act must by its terms expire not later than June 1, 1920. In the first 5 months of operation under this amendment the bureau collected as costs a sum in excess of \$20,000, and it appears that as the work progresses the receipts will be sufficient to provide for the expenses of the classification work without the aid of an additional appropriation for that particular purpose.</p> <p>It is possible to recommend a reduction of approximately \$20,000 in the total amount of available funds because (1) the work heretofore conducted under the cotton-futures act to determine disputes will be discontinued; (2) the work connected with the investigation of future and spot markets will be combined with the reporting service provided for under the amended act and can, as a result, be conducted with a smaller amount of money than is now available; and (3) the revolving fund resulting from the classification work will be an added source of income.</p> <p>The language of this paragraph has been amended by inserting the words "as amended Mar. 4, 1919," after the words "United States cotton-futures act" in the second line, in order to show specifically that the amendments contained in the wheat price guaranty act of Mar. 4, 1919, are to be included among the provisions to be enforced under this paragraph.</p> | Appropriation for 1916.....                                       | \$75,000  | Estimate for 1917..... | \$120,750 | Appropriation for 1917..... | 120,750 | Estimate for 1918..... | 98,600 | Appropriation for 1918..... | 98,600 | Estimate for 1919..... | 88,580 | Appropriation for 1919..... | 113,580 | Estimate for 1920..... | 131,780 | Appropriation for 1920..... | 131,780 | Estimate for 1921..... | 198,920 | \$198,920.00 | \$131,780.00 |
| Appropriation for 1916.....  | \$75,000  | Estimate for 1917.....  | \$120,750              |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1917.....  | 120,750   | Estimate for 1918.....  | 98,600                 |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1918.....  | 98,600  | Estimate for 1919.....  | 88,580                 |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1919.....  | 113,580   | Estimate for 1920.....  | 131,780                |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1920.....  | 131,780   | Estimate for 1921.....  | 198,920                |           |                             |         |                        |        |                             |        |                        |        |                             |         |                        |         |                             |         |                        |         |              |              |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-------------------------|---|---|
| <i>Enforcement of the United States Cotton-Futures Act—Continued.</i>   |            |                  |                         |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.         |   |   |
| Salaries:   |            | Number.          | Number.                 |   |   |
| Technologist.....per annum..  | \$4,000.00 | ..               | 1 (temp.)               |   |   |
| Specialist.....do.....  | 4,000.00   | 1                | 1 (pt. time)            |   |   |
| Specialist.....do.....  | 3,600.00   | 1                | ..                      |   |   |
| Specialist.....do.....  | 3,300.00   | 1 (new)          | ..                      |   |   |
| Specialist.....do.....  | 3,240.00   | 1                | 1                       |   |   |
| Specialists.....do.....   | 3,000.00   | 3                | 6 (3 pt. time; 1 temp.) |   |   |
| Specialist.....do.....  | 2,640.00   | ..               | 1                       |   |   |
| Specialist.....per diem.....  | 12.00      | ..               | 1 (temp.)               |   |   |
| Supervisor.....per annum.....   | 3,240.00   | 1                | ..                      |   |   |
| District representatives.....do.....  | 3,600.00   | 5                | ..                      |   |   |
| Investigator.....do.....  | 2,280.00   | ..               | 1 (pt. time)            |   |   |
| Assistants.....do.....  | 2,400.00   | 3 (1 new)        | 2                       |   |   |
| Assistants.....do.....  | 2,100.00   | ..               | 1 (temp.)               |   |   |
| Assistants.....do.....  | 2,040.00   | ..               | 2 (temp.)               |   |   |
| Assistants.....do.....  | 2,000.00   | 1                | 2                       |   |   |
| Assistants.....do.....  | 1,850.00   | 2                | 2                       |   |   |
| Assistants.....do.....  | 1,800.00   | 3                | 7 (2 temp.)             |   |   |
| Assistants.....do.....  | 1,620.00   | 1                | 2 (1 pt. time)          |   |   |
| Assistants.....do.....  | 1,500.00   | 2                | 3 (1 pt. time; 1 temp.) |   |   |
| Assistants.....do.....  | 1,200.00   | 3                | 2 (1 temp.)             |   |   |
| Cotton classers' helpers.....do.....  | 1,200.00   | 2                | 2                       |   |   |
| Clerks.....do.....  | 1,600.00   | 1 (new)          | ..                      |   |   |
| Clerk.....do.....   | 1,400.00   | 1 (new)          | ..                      |   |   |
| Clerk.....do.....   | 1,200.00   | 5 (new)          | ..                      |   |   |
| Clerks.....do.....  | 1,100.00   | ..               | 2 (1 temp.)             |   |   |
| Cotton classers' helpers, messenger, and charwomen, \$900 to \$300.....do.....  | ..         | ..               | 6 (3 temp; 1 pt. time)  |   |   |
| Wages:  |            |                  |                         |   |   |
| Chauffeurs and laborers, \$900 to \$300.....do.....   | ..         | ..               | 13 (8 temp.)            |   |   |
|   |            | 37               | 58                      |   |   |
| Salaries.....   |            | \$82,320.00      | \$51,942.34             |   |   |
| Wages.....  |            |                  | 1,759.83                |   |   |
| Other objects of expenditure:   |            |                  |                         |   |   |
| Stationery.....   |            | 1,600.00         | 908.23                  |   |   |
| Traveling expenses.....   |            | 18,900.00        | 7,524.42                |   |   |
| Equipment and material.....   |            | 70,830.00        | 1,038.35                |   |   |
| Telephone and telegraph service.....  |            | 1,850.00         | 1,191.93                |   |   |
| Miscellaneous items.....  |            | 23,420.00        | 33,132.09               |   |   |
| Total.....  |            | 198,920.00       | 97,497.19               |   |   |

*Enforcement of the United States Grain-Standards Act—*

- (96) To enable the Secretary of Agriculture to carry into effect the provisions of the United States grain-standards act, including such rent and the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere, **[\$598,600]** \$571,100: *Provided, That section 6 of the said act is hereby amended, effective on and after the passage of this act, by striking out of the first sentence the words "sold, offered for sale, or consigned for sale, or which has been shipped, or delivered for shipment in interstate or foreign commerce shall have been inspected," and substituting therefor the words "shall have been inspected by an inspector licensed under the act," and by striking out of the last sentence the words "made after the parties in interest have had opportunity to be heard" (acts Aug. 11, 1916, vol. 39, pp. 482-485, secs. 1-12; July 24, 1919, vol. 41, p. 266, sec. 1)*

\$571, 100. 00

\$598, 600. 00

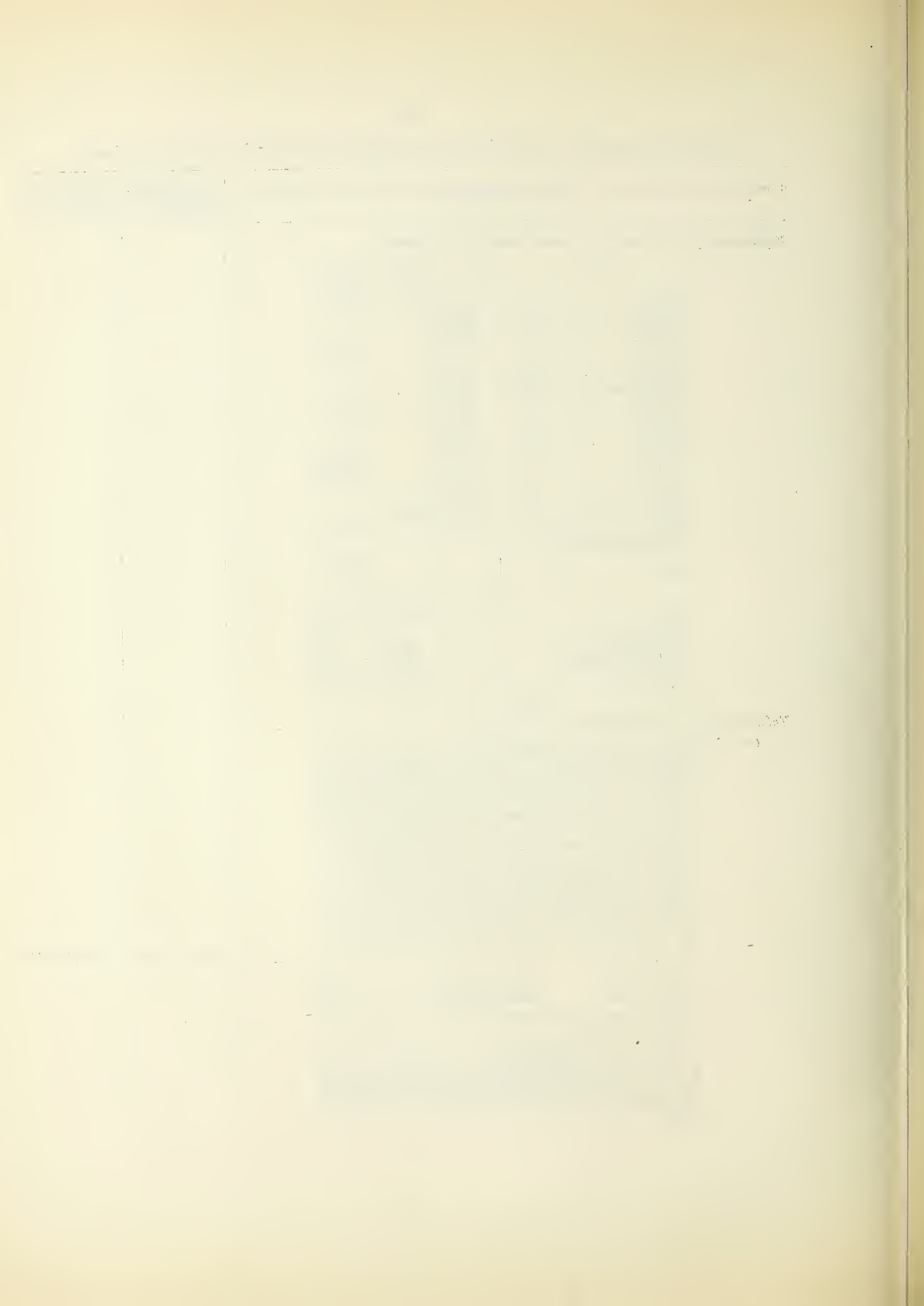
|                             |           |                        |           |
|-----------------------------|-----------|------------------------|-----------|
| Appropriation for 1917..... | \$250,000 | Estimate for 1918..... | \$519,140 |
| Appropriation for 1918..... | 519,140   | Estimate for 1919..... | 456,580   |
| Appropriation for 1919..... | 456,580   | Estimate for 1920..... | 598,600   |
| Appropriation for 1920..... | 598,600   | Estimate for 1921..... | 571,700   |

NOTE.—There is a decrease in the above item of \$27,500, due to transfers to the statutory roll.

A proviso has been added amending section 6 of the grain-standards act. The purposes of these amendments are:

(1) To permit the Secretary of Agriculture to entertain an appeal from the grade assigned by a licensed inspector to any lot of grain inspected and graded according to the official grain standards of the United States.

(2) To permit the Secretary of Agriculture to issue findings immediately after determining the appeal without serving notice on all interested parties.





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*Enforcement of the United States Grain-Standards Act—Continued.*

The present language of section 6 permits the Secretary of Agriculture to entertain an appeal from the grading of a licensed inspector only when the grain involved is in interstate commerce. It is desirable to permit the Secretary of Agriculture to entertain appeals on intrastate as well as interstate grain for the following reasons:

(1) To maintain further the integrity of the grain standards of the United States. Inspectors who grade intrastate grain under the Federal standards frequently do not apply the standards correctly, thereby discrediting the standards and the Federal grain supervision work.

(2) To protect those buyers and sellers who base transactions on Federal standards who do not now have the Federal appeal privilege. Farmers and country elevator operators frequently are denied the right of appeal to the Secretary of Agriculture because their grain, although graded by a licensed inspector and according to the official grain standards of the United States, does not move interstate. Also, operators of public warehouses frequently must take into the house grain graded according to the official grain standards of the United States without the right of Federal appeal even though they believe the grading is incorrect.

(3) To meet criticism of the act by country shippers and other intrastate dealers in grain to the effect that the act is of little or no benefit to them. Such persons frequently express dissatisfaction with the law because they are obliged to accept the grading of an inspector without recourse.

The language of section 6 now requires that all parties interested in the transaction, other than those filing the appeal, be afforded an opportunity to be heard before the issuance of the findings of the Secretary of Agriculture. It is desirable to permit the Secretary of Agriculture to issue findings without opportunity for hearing for the following reasons:

(1) To avoid delay in the handling of grain involved in an appeal.

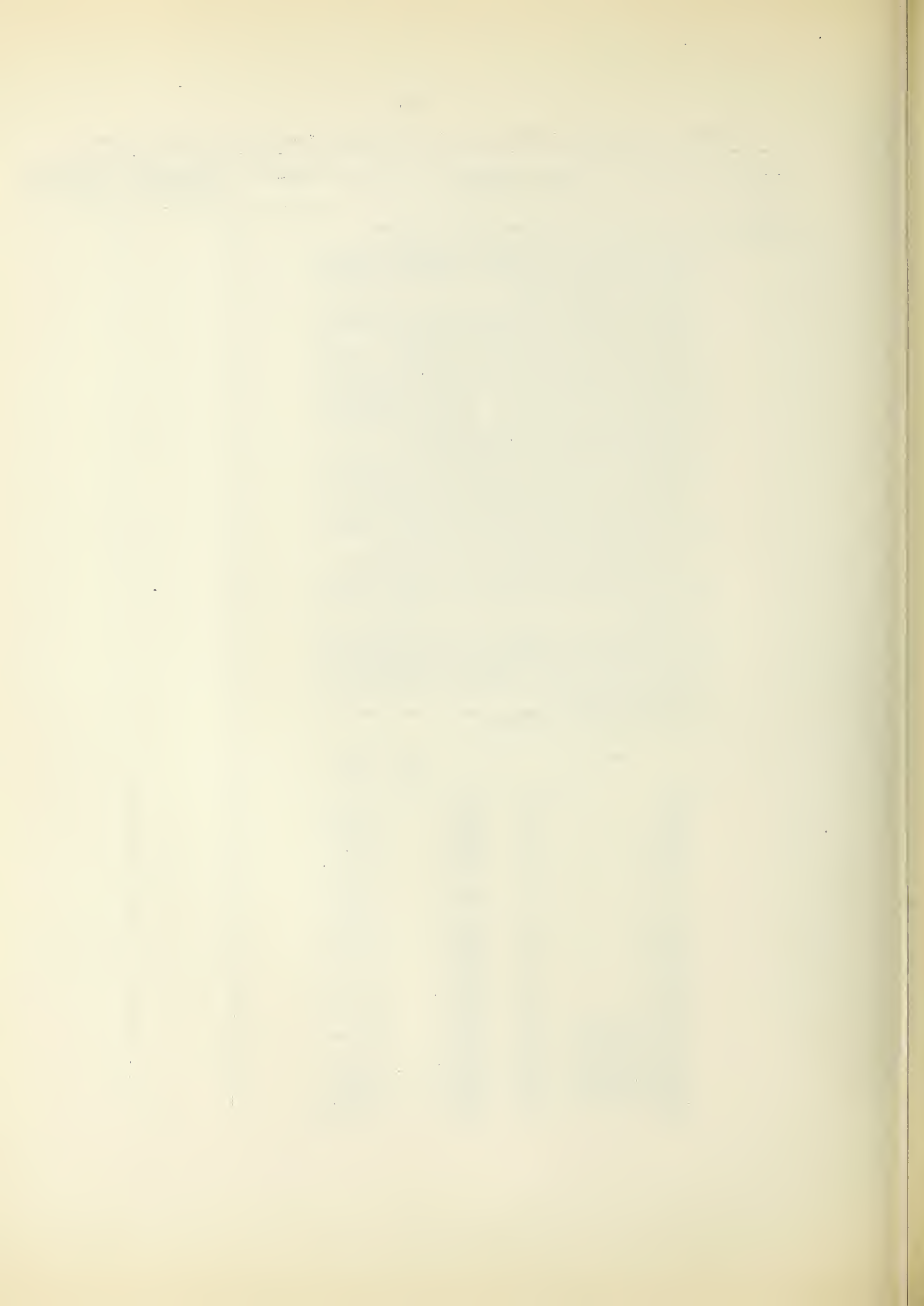
(2) To avoid delay in the settlement of a transaction involving an appeal. To afford opportunity for hearing requires the serving of notice to interested parties, which involves a lapse of time—sometimes as much as two weeks—because of the distance from the point of appeal of other interested parties.

(3) Because an appeal is for the sole purpose of ascertaining the true grade of the grain, which is determined by an examination of the grain itself. The decision is not influenced in any way by statements of interested parties. Moreover, the true grade must be determined at once. Therefore the opportunity for hearing serves no useful purpose in determining the question at issue. The opportunity for hearing has been utilized in only one case out of the 14,000 appeals thus far entertained by the Secretary of Agriculture.

(4) Because opportunity for hearing is contrary to trade practices and is considered "red tape" by the grain trade.

| Employees.                              | Rate.      | Estimated,<br>1921. | Expended,<br>1919.         |
|---|------------|---------------------|----------------------------|
|   |            | <i>Number.</i>      | <i>Number.</i>             |
| Salaries:                               |            |                     |                            |
| Specialist.....per annum..              | \$4,000.00 | 1                   | 1                          |
| Specialist.....do.....                  | 3,750.00   | ..                  | 1                          |
| Specialist.....do.....                  | 3,600.00   | ..                  | 1 (pt. time)               |
| Specialist.....do.....                  | 3,500.00   | ..                  | 1 (pt. time)               |
| Specialist.....do.....                  | 3,240.00   | ..                  | 1 (pt. time)               |
| Specialists.....do.....                 | 3,000.00   | ..                  | 2 (pt. time)               |
| Supervisor.....do.....                  | 3,500.00   | ..                  | 1 (temp.)                  |
| Supervisor.....do.....                  | 3,300.00   | 1                   | ..                         |
| Supervisors.....do.....                 | 3,240.00   | 12                  | 9 (2 pt. time)             |
| Supervisors.....do.....                 | 3,000.00   | 7                   | 4 (1 pt. time;<br>1 temp.) |
| Supervisors.....do.....                 | 2,880.00   | 2                   | ..                         |
| Supervisors.....do.....                 | 2,760.00   | 8                   | 4 (2 pt. time;<br>1 temp.) |
| Supervisor.....do.....                  | 2,700.00   | ..                  | 1 (pt. time)               |
| Supervisors.....do.....                 | 2,640.00   | ..                  | 2                          |
| Supervisors.....do.....                 | 2,520.00   | 7                   | 4 (2 pt. time)             |
| Supervisors.....do.....                 | 2,500.00   | 2                   | 3 (1 pt. time)             |
| Supervisors.....do.....                 | 2,400.00   | 5                   | 7 (3 pt. time)             |
| Supervisor.....do.....                  | 2,340.00   | ..                  | 1                          |
| Supervisors.....do.....                 | 2,280.00   | 9                   | 8 (3 pt. time)             |
| Supervisor.....do.....                  | 2,000.00   | ..                  | 1                          |
| Supervisors.....do.....                 | 2,040.00   | 2                   | ..                         |
| Supervisor.....do.....                  | 1,920.00   | 1                   | 1 (pt. time)               |
| Supervisors.....do.....                 | 1,860.00   | 2                   | ..                         |
| Supervisors.....do.....                 | 1,800.00   | 2                   | 4 (1 pt. time)             |
| Assistant grain supervisor.....do.....  | 2,580.00   | 1                   | ..                         |
| Assistant grain supervisor.....do.....  | 2,540.00   | ..                  | 1                          |
| Assistant grain supervisors.....do..... | 2,280.00   | 2                   | 2 (pt. time)               |
| Assistant grain supervisor.....do.....  | 2,160.00   | 1                   | 1                          |
| Assistant grain supervisor.....do.....  | 1,860.00   | ..                  | 1 (pt. time)               |
| Assistant grain supervisors.....do..... | 1,800.00   | 11                  | 7                          |
| Assistant grain supervisor.....do.....  | 1,740.00   | 1                   | ..                         |
| Assistant grain supervisors.....do..... | 1,680.00   | 4                   | 4 (1 temp.)                |
| Assistant grain supervisor.....do.....  | 1,620.00   | ..                  | 1 (temp.)                  |
| Assistant grain supervisor.....do.....  | 1,560.00   | 1                   | ..                         |
| Assistants.....do.....                  | 1,800.00   | ..                  | 3 (2 pt. time)             |
| Assistants.....do.....                  | 1,620.00   | 2                   | 1 (pt. time)               |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            |                        |                           | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------------|---------------------------|---|---|
| <i>Enforcement of the United States Grain-Standards Act—Continued.</i>  |            |                        |                           |   |   |
| Employees.  | Rate.      | Estimated, 1921.       | Expended, 1919.           |   |   |
| SALARIES—Continued.   |            | Number.                | Number.                   |   |   |
| Assistant.....per annum..   | \$1,440.00 | 1                      | ..                        |   |   |
| Assistant.....do.....   | 1,200.00   | ..                     | 1                         |   |   |
| Grain expert.....do.....  | 1,800.00   | ..                     | 1 (pt. time)              |   |   |
| Investigator.....do.....  | 2,640.00   | 1                      | ..                        |   |   |
| Investigator.....do.....  | 2,400.00   | 1                      | ..                        |   |   |
| Investigator.....do.....  | 1,800.00   | ..                     | 1 (pt. time)              |   |   |
| Sampler.....do.....   | 1,800.00   | ..                     | 1                         |   |   |
| Samplers.....do.....  | 1,800.00   | ..                     | 2 (1 pt. time; 1 temp.)   |   |   |
| Sampler.....do.....   | 1,740.00   | ..                     | 1                         |   |   |
| Sampler.....do.....   | 1,680.00   | 1                      | ..                        |   |   |
| Samplers.....do.....  | 1,620.00   | 28                     | 18                        |   |   |
| Samplers.....do.....  | 1,560.00   | 2                      | ..                        |   |   |
| Samplers.....do.....  | 1,500.00   | 46                     | 47 (3 pt. time; 3 temp.)  |   |   |
| Samplers.....do.....  | 1,440.00   | 10                     | 15 (2 temp.)              |   |   |
| Samplers.....do.....  | 1,400.00   | 5                      | 4 (2 temp.)               |   |   |
| Samplers.....do.....  | 1,380.00   | 4                      | 4 (1 pt. time)            |   |   |
| Samplers.....do.....  | 1,320.00   | 3                      | 6 (1 temp.)               |   |   |
| Samplers.....do.....  | 1,200.00   | 3                      | 12 (1 pt. time; 6 temp.)  |   |   |
| Sampler.....do.....   | 1,140.00   | ..                     | 1 (temp.)                 |   |   |
| Executive assistant.....do.....   | 1,980.00   | ..                     | 1 (pt. time)              |   |   |
| Clerk.....do.....   | 2,250.00   | ..                     | 1 (temp.)                 |   |   |
| Clerks.....do.....  | 1,800.00   | ..                     | 2 (pt. time)              |   |   |
| Clerk.....do.....   | 1,740.00   | ..                     | 1                         |   |   |
| Clerks.....do.....  | 1,600.00   | ..                     | 2 (1 pt. time)            |   |   |
| Clerks.....do.....  | 1,400.00   | ..                     | 6 (2 temp.)               |   |   |
| Clerk.....do.....   | 1,320.00   | ..                     | 1                         |   |   |
| Clerks.....do.....  | 1,200.00   | ..                     | 49 (5 pt. time; 29 temp.) |   |   |
| Clerks.....do.....  | 1,100.00   | ..                     | 16 (3 pt. time; 5 temp.)  |   |   |
| Clerks.....do.....  | 1,050.00   | ..                     | 3 (1 pt. time; 1 temp.)   |   |   |
| Clerks.....do.....  | 1,000.00   | ..                     | 13 (1 pt. time; 10 temp.) |   |   |
| Draftsman.....do.....   | 1,200.00   | ..                     | 1                         |   |   |
| Clerks, messengers, charwomen, and watchmen, \$900 to \$300.....do.....   |            |                        | 17 (14 temp.)             |   |   |
| Wages:  |            |                        |                           |   |   |
| Laborers, \$900 to \$660.....do.....  |            |                        | 2                         |   |   |
|   |            | 190                    | 303                       |   |   |
| Salaries.....   |            | \$369,220.00           | \$331,124.22              |   |   |
| Wages.....  |            |                        | 520.00                    |   |   |
| Other objects of expenditure:   |            |                        |                           |   |   |
| Stationery.....   |            | 12,000.00              | 3,786.18                  |   |   |
| Traveling expenses.....   |            | 49,705.00              | 33,663.24                 |   |   |
| Equipment and material.....   |            | 50,000.00              | 5,170.88                  |   |   |
| Telephone and telegraph service.....  |            | 4,750.00               | 3,223.77                  |   |   |
| Miscellaneous items.....  |            | 185,425.00             | 64,274.75                 |   |   |
| Total.....  |            | 571,100.00             | 441,763.04                |   |   |
| 1 Includes \$55,928 for rent.   |            |                        |                           |   |   |
| <i>Administration of the United States Warehouse Act—</i>   |            |                        |                           |   |   |
| (97) To enable the Secretary of Agriculture to carry into effect the provisions of the United States warehouse act, including the payment of such rent and the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere, <b>[\$35,000]</b> \$80,000 (acts Aug. 11, 1916, vol. 39, pp. 486-491, secs. 1-33; July 24, 1919, vol. 41, p. 266, sec. 1)..... |            |                        |                           | \$80,000.00   | \$35,000.00   |
| Appropriation for 1917.....   | \$50,000   | Estimate for 1918..... | \$59,620                  |   |   |
| Appropriation for 1918.....   | 59,620     | Estimate for 1919..... | 53,540                    |   |   |
| Appropriation for 1919.....   | 53,540     | Estimate for 1920..... | 69,980                    |   |   |
| Appropriation for 1920.....   | 35,000     | Estimate for 1921..... | 80,000                    |   |   |
| NOTE.—There is an increase in the above item of \$45,000. Inasmuch as there remained available on June 30, 1919, from the original appropriation approximately \$38,000 for expenditure during the present fiscal year, the actual increase in funds recommended for this purpose during the fiscal year 1921 is only \$7,000.  |            |                        |                           |   |   |

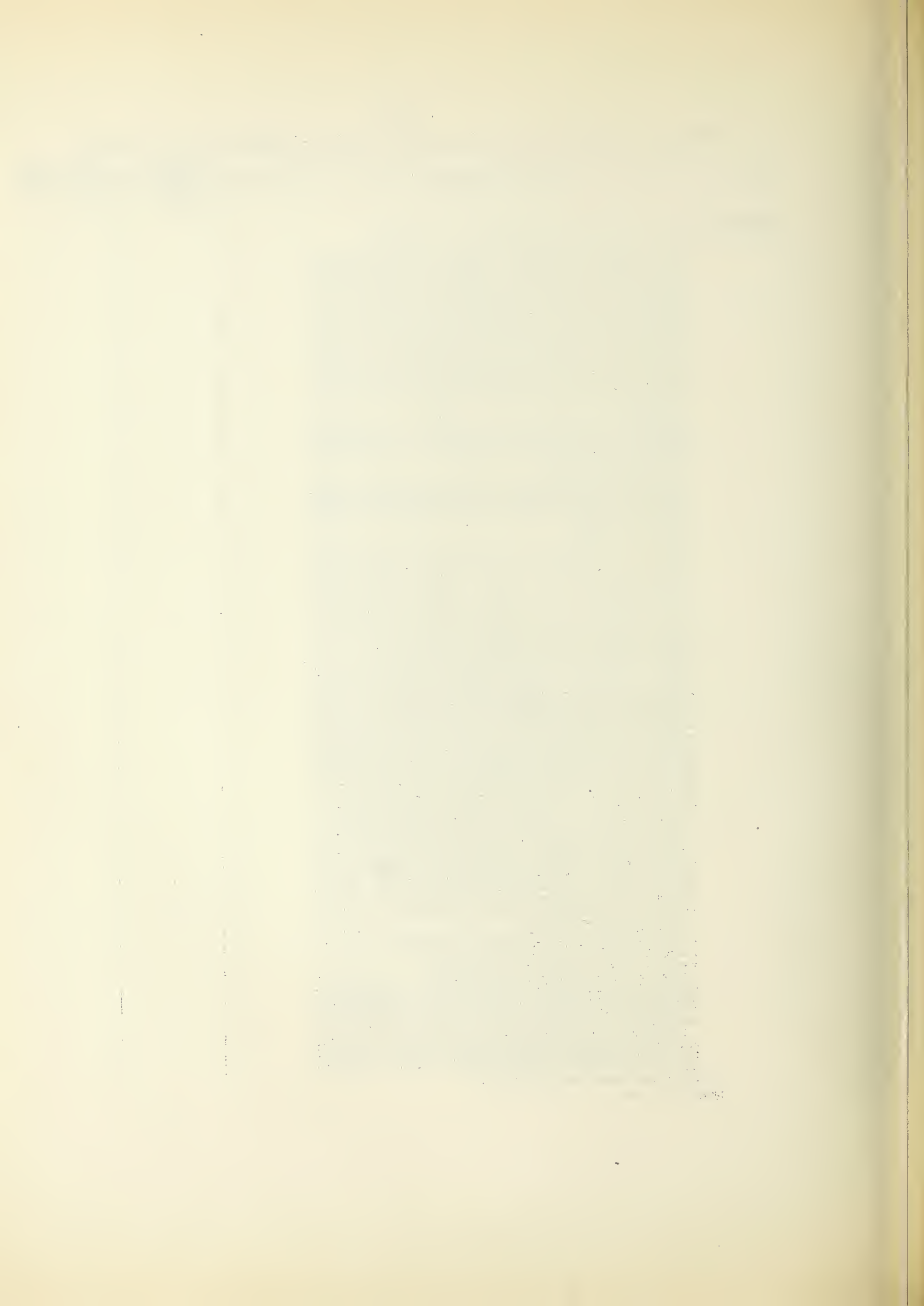




*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

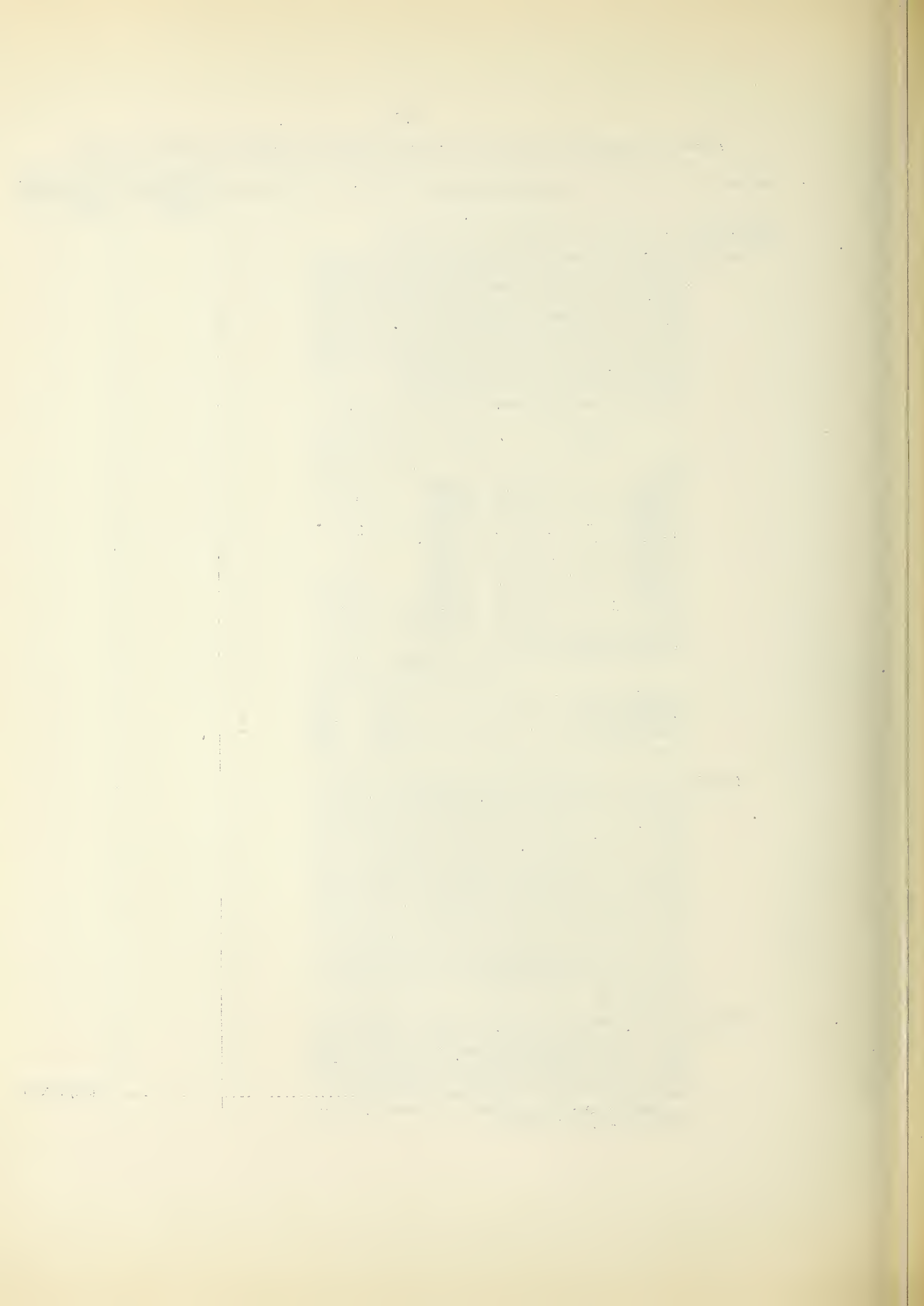
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <p><i>Administration of the United States Warehouse Act—Continued.</i></p> <p>There is every indication now that very wide use will soon be made of the warehouse act owing to changing conditions and recent amendments to the law which have eliminated some deterrent features. This work has been retarded since the passage of the act more than three years ago (1) because it has not been possible to employ a sufficient number of suitable persons for carrying it on; (2) because there has been so much other work of an extremely urgent nature assigned to the Bureau of Markets and to the department, including war activities of many kinds, that it was necessary to suspend to a large extent activities of relatively less importance; (3) conditions were so abnormal during war times that it was not deemed wise to push a voluntary licensing scheme in lines of business under control of other branches of the Government; and (4) certain provisions of the act exercised a restrictive effect on its operation.</p> <p>The following are some of the reasons for expecting increased activity in this work:</p> <ol style="list-style-type: none"> <li>1. A cooperative agreement has been reached with the State officials of North Carolina whereby all of the warehouses in the State system will be operated under the United States warehouse act. The department is informed by the State authorities that it is expected there will be about 50 of these State warehouses.</li> <li>2. A tentative agreement has been reached with the director of the Georgia Market Bureau whereunder this State bureau will urge Georgia warehousemen to become licensed under the Federal act and the State agents will actually solicit applications. This arrangement should bring about many applications in the near future. There are about 1,000 warehouses in Georgia.</li> <li>3. A definite understanding has been reached with the Atlanta Federal reserve bank that it will cooperate with this department in bringing cotton warehouses into the Federal system. The bank has distributed printed matter in which it specifically recommends that warehousemen become licensed under the warehouse act and states that the negotiability of their paper will be increased as the result of such action. The Richmond reserve bank has indicated its willingness to grant a reduction of one-fourth of 1 per cent in the discount rate for paper based upon receipts issued by licensed warehouses. The St. Louis Federal reserve bank will give preferred consideration to licensed warehouses in establishing a list of warehouses, the receipts of which will be accepted as collateral for paper rediscounted. The Dallas Federal reserve bank has agreed to cooperate in an educational way in bringing about the construction and licensing of cotton warehouses. The department is advised that the San Francisco Federal reserve bank has advocated licensing under the act as a means of increasing the negotiability of warehouse receipts. The foregoing are the results of preliminary negotiations with the Federal reserve banks up to this time, and the department is continuing its negotiations for the purpose of bringing about even more advantageous action and more effective cooperation. The regulations for grain warehouses have been so recently issued that it has not been practicable to secure the views of Federal reserve banks in those portions of the United States which would be interested in the receipts issued by such warehouses. An important feature of the warehouse act which has brought about its favorable consideration by the Federal reserve banks is the inspection service which would be maintained by the department.</li> <li>4. Underwriters' associations in the more important cotton States have agreed to give a substantial reduction in the insurance rates on cotton stored in licensed warehouses. For instance, the Southeastern Underwriters' Association, covering the States of Virginia, North Carolina, South Carolina, Georgia, Alabama, and Florida, has agreed to allow a credit of 25 per cent in insurance rates on all cotton stored in licensed warehouses. This reduction should act as a great stimulus in encouraging warehouses to become licensed.</li> <li>5. An organization of growers, bankers, and others interested in cotton has recently given assurance that, in its campaign for better warehousing facilities, it would give its active support to the licensing of warehouses under the United States warehouse act.</li> <li>6. One warehouse company, a corporation with an initial capital stock of \$20,000,000, is making active plans for establishing a chain of warehouses throughout the cotton belt, as well as in the cotton-consuming sections, including New England. This company proposes to purchase and build warehouses to be operated under the United States warehouse act.</li> <li>7. Regulations for grain warehouses have just been issued and applications from 10 or 12 warehouses have already been received. Regulations for wool warehouses are in course of preparation and should be issued in the near future, while regulations for tobacco warehouses should be issued before the end of the present year.</li> </ol> |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

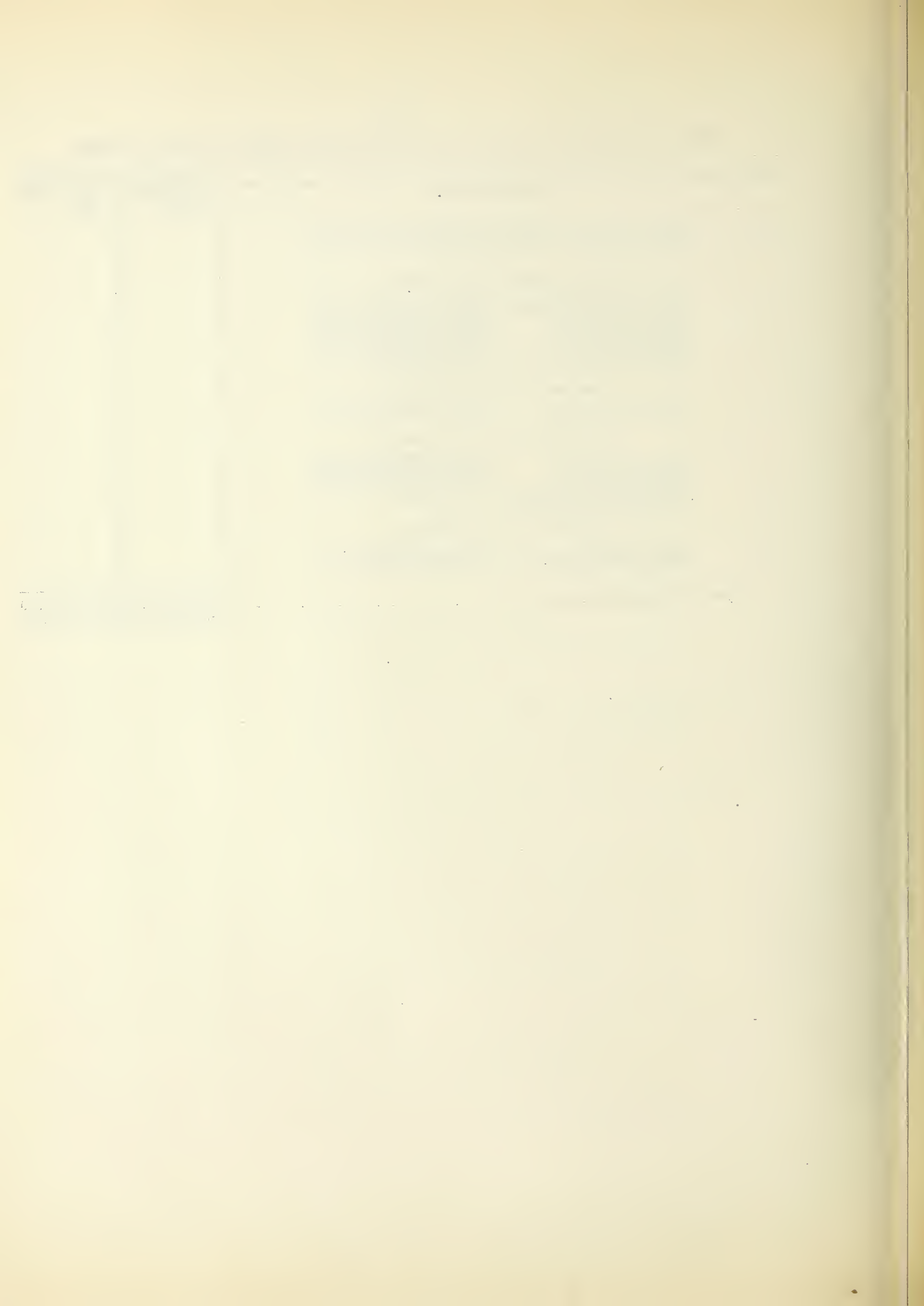
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  |            |                  |                 | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|------------|------------------|-----------------|---|---|
| <i>Administration of the United States Warehouse Act—Continued.</i>  |            |                  |                 |   |   |
| (98) [That, effective on and after the passage of this Act, section 6 of said United States warehouse act is hereby amended by striking out of the first sentence of said section the words "other than personal security," and by striking out at the end of the second sentence of said section the words "including the requirements of fire insurance;" and section 18 of said act is hereby amended by striking out at the end of said section the words "if it have plainly and conspicuously embodied in its written or printed terms a provision that such receipt is not negotiable."]  |            |                  |                 |   |   |
| NOTE.—This paragraph is omitted, as it is permanent legislation.   |            |                  |                 |   |   |
| Employees.   | Rate.      | Estimated, 1921. | Expended, 1919. |   |   |
| Salaries:  |            | Number.          | Number.         |   |   |
| Specialist.....per annum..   | \$3,600.00 | ..               | 1 (pt. time)    |   |   |
| Specialist.....do.....   | 2,760.00   | 1                | ..              |   |   |
| Specialist.....do.....   | 2,640.00   | ..               | 1               |   |   |
| Specialist.....do.....   | 2,500.00   | ..               | 1               |   |   |
| Investigators.....do.....  | 2,700.00   | 4                | 2 (temp.)       |   |   |
| Investigators.....do.....  | 2,400.00   | 3 (2 new)        | ..              |   |   |
| Investigator.....do.....   | 2,160.00   | 1                | ..              |   |   |
| Investigator.....do.....   | 2,100.00   | ..               | 1               |   |   |
| Investigator.....do.....   | 2,040.00   | ..               | 1               |   |   |
| Investigators.....do.....  | 2,000.00   | 2                | 2               |   |   |
| Investigator.....do.....   | 1,800.00   | ..               | 1               |   |   |
| Assistant to solicitor.....do.....   | 2,500.00   | ..               | 1               |   |   |
| Assistant.....do.....  | 2,100.00   | 1                | 2 (1 pt. time)  |   |   |
| Assistant.....do.....  | 1,920.00   | 1                | 1               |   |   |
| Assistants.....do.....   | 1,800.00   | 4                | 1               |   |   |
| Assistants.....do.....   | 1,500.00   | 2 (new)          | 1 (pt. time)    |   |   |
| Clerk.....do.....  | 2,000.00   | ..               | 1               |   |   |
| Clerks.....do.....   | 1,400.00   | 1 (new)          | 2 (temp.)       |   |   |
| Clerks.....do.....   | 1,200.00   | 1 (new)          | 4 (temp.)       |   |   |
| Clerk.....do.....  | 1,100.00   | ..               | 1               |   |   |
| Messenger boy, charwomen, and watchmen, \$720 to \$240.....do.....   |            | 1 (new)          | 4 (3 temp.)     |   |   |
|  |            | 22               | 28              |   |   |
| Salaries.....  |            | \$44,280.00      | \$28,134.18     |   |   |
| Other objects of expenditure:  |            |                  |                 |   |   |
| Stationery.....  |            | 1,500.00         | 120.62          |   |   |
| Traveling expenses.....  |            | 19,000.00        | 10,196.79       |   |   |
| Equipment and material.....  |            | 5,500.00         | 311.78          |   |   |
| Miscellaneous items.....   |            | 9,720.00         | 3,254.20        |   |   |
| Total.....   |            | 80,000.00        | 42,017.57       |   |   |
| (99) [That hereafter, in the performance of the duties required of the Bureau of Markets in the administration or enforcement of provisions of acts (United States cotton futures act, 39th Stat. L., p. 476; United States grain standards act, 39th Stat. L., p. 482; United States warehouse act, 39th Stat. L., p. 486; standard container act, 39th Stat. L., p. 673; and the acts making annual appropriations for the Department of Agriculture) relating to the Department of Agriculture, the Secretary of Agriculture, or any representative specifically authorized in writing by him for the purpose, shall have power to administer oaths, examine witnesses, and call for the production of books and papers.] |            |                  |                 |   |   |
| NOTE.—The above language granting power to employees of the Bureau of Markets, in the administration or enforcement of the provisions of the cotton futures act, grain standards act, and the warehouse act, to administer oaths, examine witnesses, etc., is omitted, as it is permanent legislation.   |            |                  |                 |   |   |
| (100) [To enable the Bureau of Markets to complete the work of the Domestic Wool Section of the War Industries Board and to enforce the Government regulations for handling the wool clip of 1918 as established by the Wool Division of said board, pursuant to the Executive Order dated Dec. 31, 1918, transferring such work to the said bureau, \$35,000]   |            |                  |                 |   | \$35,000.00   |
| NOTE.—The above item is omitted, as the work will be completed during the present fiscal year.   |            |                  |                 |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
|--|---|---|--------------------------------------|---------------------------------------|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------------|---------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--------------------------------------|--------------------------------------|------------------------|---------------------------------------|--|-----------------------------|--------------------------------------|--------------------------------------|-----------------------------|--|--|
| <p><i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i></p> <p>GENERAL EXPENSES—BUREAU OF MARKETS.</p> <table><tr><td>2 clerks, at \$2,250 each per annum.</td><td>30 clerks, at \$1,200 each per annum.</td></tr><tr><td>2 clerks, at \$2,000 each per annum.</td><td>50 clerks, at \$1,100 each per annum.</td></tr><tr><td>1 clerk, \$1,800 per annum.</td><td>5 clerks, at \$1,080 each per annum.</td></tr><tr><td>1 clerk, \$1,600 per annum.</td><td>1 clerk, \$1,020 per annum.</td></tr><tr><td>1 clerk, \$1,500 per annum.</td><td>8 clerks, at \$1,000 each per annum.</td></tr><tr><td>5 clerks, at \$1,400 each per annum.</td><td>1 clerk, \$960 per annum.</td></tr><tr><td>1 clerk, \$1,320 per annum.</td><td>3 clerks, at \$900 each per annum.</td></tr></table> <p>ENFORCEMENT OF THE COTTON FUTURES ACT.</p> <table><tr><td>1 clerk, \$1,200 per annum.</td><td>2 clerks, at \$1,100 each per annum.</td></tr></table> <p>ENFORCEMENT OF THE GRAIN STANDARDS ACT.</p> <table><tr><td>1 clerk, \$1,800 per annum.</td><td>3 clerks, at \$1,100 each per annum.</td></tr><tr><td>1 clerk, \$1,740 per annum.</td><td>2 clerks, at \$1,020 each per annum.</td></tr><tr><td>1 clerk, \$1,600 per annum.</td><td>7 clerks, at \$1,000 each per annum.</td></tr><tr><td>3 clerks, at \$1,400 each per annum.</td><td>1 clerk, \$3 per diem.</td></tr><tr><td>21 clerks, at \$1,200 each per annum.</td><td></td></tr></table> <p>ADMINISTRATION OF THE WAREHOUSE ACT.</p> <table><tr><td>1 clerk, \$2,000 per annum.</td><td>4 clerks, at \$1,200 each per annum.</td></tr><tr><td>2 clerks, at \$1,400 each per annum.</td><td>1 clerk, \$1,100 per annum.</td></tr></table> | 2 clerks, at \$2,250 each per annum.                              | 30 clerks, at \$1,200 each per annum.                         | 2 clerks, at \$2,000 each per annum. | 50 clerks, at \$1,100 each per annum. | 1 clerk, \$1,800 per annum. | 5 clerks, at \$1,080 each per annum. | 1 clerk, \$1,600 per annum. | 1 clerk, \$1,020 per annum. | 1 clerk, \$1,500 per annum. | 8 clerks, at \$1,000 each per annum. | 5 clerks, at \$1,400 each per annum. | 1 clerk, \$960 per annum. | 1 clerk, \$1,320 per annum. | 3 clerks, at \$900 each per annum. | 1 clerk, \$1,200 per annum. | 2 clerks, at \$1,100 each per annum. | 1 clerk, \$1,800 per annum. | 3 clerks, at \$1,100 each per annum. | 1 clerk, \$1,740 per annum. | 2 clerks, at \$1,020 each per annum. | 1 clerk, \$1,600 per annum. | 7 clerks, at \$1,000 each per annum. | 3 clerks, at \$1,400 each per annum. | 1 clerk, \$3 per diem. | 21 clerks, at \$1,200 each per annum. |  | 1 clerk, \$2,000 per annum. | 4 clerks, at \$1,200 each per annum. | 2 clerks, at \$1,400 each per annum. | 1 clerk, \$1,100 per annum. |  |  |
| 2 clerks, at \$2,250 each per annum.   | 30 clerks, at \$1,200 each per annum.                             |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 2 clerks, at \$2,000 each per annum.   | 50 clerks, at \$1,100 each per annum.                             |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,800 per annum.  | 5 clerks, at \$1,080 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,600 per annum.  | 1 clerk, \$1,020 per annum.                                       |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,500 per annum.  | 8 clerks, at \$1,000 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 5 clerks, at \$1,400 each per annum.   | 1 clerk, \$960 per annum.   |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,320 per annum.  | 3 clerks, at \$900 each per annum.                                |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,200 per annum.  | 2 clerks, at \$1,100 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,800 per annum.  | 3 clerks, at \$1,100 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,740 per annum.  | 2 clerks, at \$1,020 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$1,600 per annum.  | 7 clerks, at \$1,000 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 3 clerks, at \$1,400 each per annum.   | 1 clerk, \$3 per diem.  |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 21 clerks, at \$1,200 each per annum.  |   |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 1 clerk, \$2,000 per annum.  | 4 clerks, at \$1,200 each per annum.                              |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| 2 clerks, at \$1,400 each per annum.   | 1 clerk, \$1,100 per annum.                                       |   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |
| Total for Bureau of Markets.....   | \$3, 023, 395. 00   | \$2, 811, 365. 00   |                                      |                                       |                             |                                      |                             |                             |                             |                                      |                                      |                           |                             |                                    |                             |                                      |                             |                                      |                             |                                      |                             |                                      |                                      |                        |                                       |  |                             |                                      |                                      |                             |  |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| ENFORCEMENT OF THE INSECTICIDE ACT.   |   |   |
| Salaries, Enforcement of the Insecticide Act—   |   |   |
| (1) One executive officer ( <i>R. S.</i> , p. 87, secs. 520–523; acts Apr. 26, 1910, vol. 36, pp. 331–335, secs. 1–14; July 24, 1919, vol. 41, p. 267, sec. 1).....   | \$2, 750. 00  |   |
| (2) One executive assistant ( <i>same acts</i> ).....   | 2, 000. 00  |   |
| (3) One clerk, class 3 ( <i>same acts</i> ).....  | 1, 600. 00  |   |
| (4) One clerk, class 2 ( <i>same acts</i> ).....  | 1, 400. 00  |   |
| (5) Four clerks, class 1 (increase of 1 by transfer from lump fund for general expenses) ( <i>same acts</i> ).....  | 4, 800. 00  |   |
| (6) Two clerks, at \$1,140 each ( <i>same acts</i> ).....   | 2, 280. 00  |   |
| (7) Two clerks, at \$1,000 each ( <i>same acts</i> ).....   | 2, 000. 00  |   |
| (8) Three insecticide and fungicide inspectors, at \$1,600 each ( <i>same acts</i> ).....   | 4, 800. 00  |   |
| (9) Two clerks and sample collectors, at \$1,000 each ( <i>same acts</i> ).....   | 2, 000. 00  |   |
| (10) One sample and storeroom custodian ( <i>same acts</i> ).....   | 1, 200. 00  |   |
| (11) One laboratory helper ( <i>same acts</i> ).....  | 840. 00   |   |
| (12) One laboratory helper ( <i>same acts</i> ).....  | 720. 00   |   |
| (13) One laboratory helper ( <i>same acts</i> ).....  | 600. 00   |   |
| (14) One unskilled laborer ( <i>same acts</i> ).....  | 600. 00   |   |
| (15) One unskilled laborer ( <i>same acts</i> ).....  | 480. 00   |   |
| (16) Two messenger boys, at \$480 each ( <i>same acts</i> ).....  | 960. 00   |   |
| (17) One messenger boy ( <i>same acts</i> ).....  | 360. 00   |   |
| (18) Two charwomen, at \$480 each ( <i>same acts</i> ).....   | 960. 00   |   |
|   | \$30, 350. 00   | \$29, 150. 00   |
| Appropriations for 1917..... \$24, 590  | Estimates for 1917..... \$24, 590                                 |   |
| Appropriations for 1918..... 25, 070  | Estimates for 1918..... 25, 990                                   |   |
| Appropriations for 1919..... 26, 750  | Estimates for 1919..... 26, 750                                   |   |
| Appropriations for 1920..... 29, 150  | Estimates for 1920..... 27, 950                                   |   |
|   | Estimates for 1921..... 30, 350                                   |   |
| NOTE.—Apparent increase, \$1,200; no actual increase, as follows:   |   |   |
| Transfer from lump-sum fund for general expenses, which fund has been correspondingly reduced.  |   |   |
| 1 clerk, class 1.....   | \$1, 200  |   |
| General Expenses, Enforcement of the Insecticide Act—   |   |   |
| (19) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and for all necessary expenses, as follows ( <i>acts Apr. 26, 1910, vol. 36, pp. 331–335, secs. 1–14; July 24, 1919, vol. 41, p. 267, sec. 1</i> ): |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

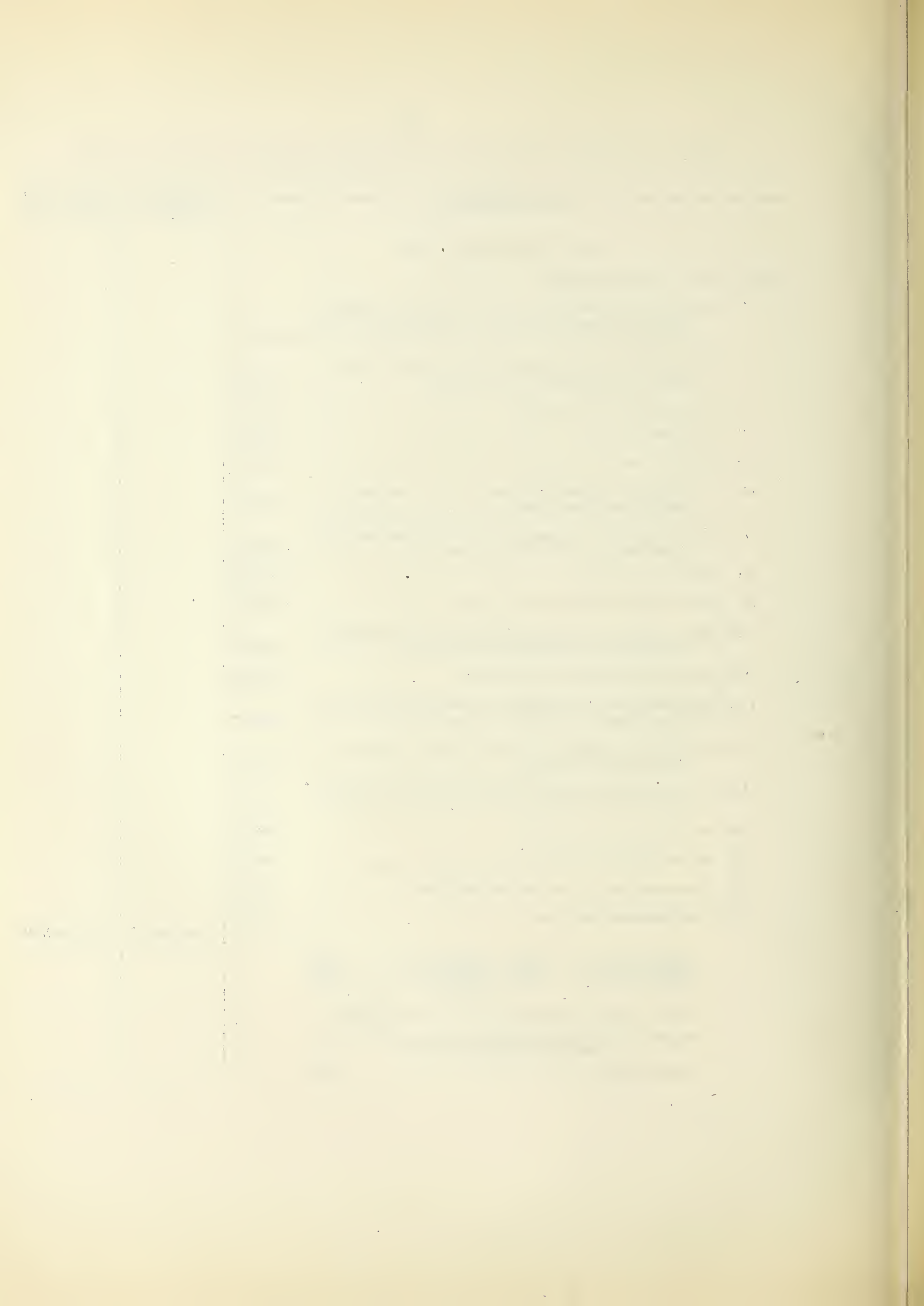
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
|---|---|---|------------------|-----------------|------------------|--|--|--|--------------------------|------------|---|---|-------------------------------|----------|---|---|-------------------------------|----------|---|---|-------------------------------|----------|----|---|-------------------------------|----------|---|---|-------------------------------|----------|---|---|-------------------------------|----------|----|---|-------------------------------|----------|---|---|-------------------------------|----------|-----------|----|-------------------------------|----------|---|---|-------------------------------|----------|----|---|-------------------------------|----------|---------|---|-------------------------------|----------|---|----|-------------------------------|----------|---|---|-------------------------------|----------|-----------|-------------|-------------------------------|----------|-----------|-----------|--|----------|---------|----|----------------|----------|----|-----------|-----------------|----------|----|-----------|----------------|----------|----|-----------|----------------------|----------|---------|----|---------------------|----------|---|---|----------------------------------|--|--|--|--|--|---|---|---------------------------------|--|---|---|--|--|----|----|---------------|--|-------------|-------------|--------------------------------------|--|--|--|-----------------|--|----------|--------|-------------------------|--|-----------|-----------|-----------------------------|--|-----------|----------|--------------------------|--|-----------|----------|------------|--|------------|-----------|--|--|
| <i>General Expenses, Enforcement of the Insecticide Act—Continued.</i>  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| (20) To enable the Secretary of Agriculture to carry into effect the provisions of the act of Apr. 26, 1910, entitled "An act for preventing the manufacture, sale, or transportation of adulterated or misbranded Paris greens, lead arsenates, other insecticides, and also fungicides, and for regulating traffic therein, and for other purposes," <b>[\$94,790]</b> \$111,560 (acts Apr. 26, 1910, vol. 36, pp. 331-335, secs. 1-14; July 24, 1919, vol. 41, p. 267, sec. 1) -----   | \$111,560.00  | \$94,790.00   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Appropriation for 1911..... \$35,000<br>Appropriation for 1912..... 87,000<br>Appropriation for 1913..... 87,000<br>Appropriation for 1914..... 95,000<br>Appropriation for 1915..... 95,000<br>Appropriation for 1916..... 100,000<br>Appropriation for 1917..... 80,410<br>Appropriation for 1918..... 87,430<br>Appropriation for 1919..... 94,490<br>Appropriation for 1920..... 94,790<br>Estimates for 1912..... \$87,000<br>Estimates for 1913..... 100,000<br>Estimates for 1914..... 100,000<br>Estimates for 1915..... 95,000<br>Estimates for 1916..... 107,780<br>Estimates for 1917..... 85,670<br>Estimates for 1918..... 87,430<br>Estimates for 1919..... 94,490<br>Estimates for 1920..... 94,790<br>Estimates for 1921..... 111,560   |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| NOTE.—There is an apparent increase in the above item of \$16,770, but taking into consideration the transfer to the statutory roll of 1 clerk of class 1, the actual increase is \$17,970.<br>The present force of inspectors and scientific assistants is insufficient for a proper enforcement of the insecticide act, in view of the large growth of the insecticide and fungicide manufacturing industry and the greatly increased number of shipments that must be inspected and samples that must be examined and tested. The amount recommended will make possible the appointment of additional assistants, pay their traveling and other expenses, and provide necessary supplies and equipment.  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated, 1921.</th><th>Expended, 1919.</th></tr><tr><td colspan="4"><i>Salaries:</i></td></tr><tr><td>Chairman.....per annum..</td><td>\$4,000.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>3,500.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>3,000.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>2,750.00</td><td>..</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>2,520.00</td><td>3</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>2,280.00</td><td>5</td><td>4</td></tr><tr><td>Scientific assistant.....do..</td><td>2,100.00</td><td>..</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>2,040.00</td><td>4</td><td>2</td></tr><tr><td>Scientific assistant.....do..</td><td>2,000.00</td><td>2 (1 new)</td><td>..</td></tr><tr><td>Scientific assistant.....do..</td><td>1,980.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>1,920.00</td><td>..</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>1,800.00</td><td>3 (new)</td><td>5</td></tr><tr><td>Scientific assistant.....do..</td><td>1,620.00</td><td>2</td><td>..</td></tr><tr><td>Scientific assistant.....do..</td><td>1,500.00</td><td>1</td><td>1</td></tr><tr><td>Scientific assistant.....do..</td><td>1,440.00</td><td>3 (1 new)</td><td>7 (3 temp.)</td></tr><tr><td>Scientific assistant.....do..</td><td>1,200.00</td><td>1 (temp.)</td><td>1 (temp.)</td></tr><tr><td>Insecticide and fungicide inspector.....do..</td><td>1,600.00</td><td>1 (new)</td><td>..</td></tr><tr><td>Clerk.....do..</td><td>1,400.00</td><td>..</td><td>1 (temp.)</td></tr><tr><td>Clerks.....do..</td><td>1,200.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td>Clerk.....do..</td><td>1,000.00</td><td>..</td><td>2 (temp.)</td></tr><tr><td>Chemist aid.....do..</td><td>1,080.00</td><td>1 (new)</td><td>..</td></tr><tr><td>Nurseryman.....do..</td><td>1,020.00</td><td>1</td><td>1</td></tr><tr><td>Field assistants, firemen, char-</td><td></td><td></td><td></td></tr><tr><td>women, and clerks, \$900 to \$240.....do..</td><td></td><td>3</td><td>3</td></tr><tr><td>\$3.36 to \$2.50.....per diem..</td><td></td><td>2</td><td>2</td></tr><tr><td></td><td></td><td>38</td><td>39</td></tr><tr><td>Salaries.....</td><td></td><td>\$67,765.00</td><td>\$53,333.38</td></tr><tr><td colspan="4"><i>Other objects of expenditure:</i></td></tr><tr><td>Stationery.....</td><td></td><td>1,200.00</td><td>711.45</td></tr><tr><td>Traveling expenses.....</td><td></td><td>18,000.00</td><td>14,795.56</td></tr><tr><td>Equipment and material.....</td><td></td><td>12,500.00</td><td>9,033.98</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>12,095.00</td><td>6,809.43</td></tr><tr><td>Total.....</td><td></td><td>111,560.00</td><td>84,683.80</td></tr></table> | Employees.  | Rate.   | Estimated, 1921. | Expended, 1919. | <i>Salaries:</i> |  |  |  | Chairman.....per annum.. | \$4,000.00 | 1 | 1 | Scientific assistant.....do.. | 3,500.00 | 1 | 1 | Scientific assistant.....do.. | 3,000.00 | 1 | 1 | Scientific assistant.....do.. | 2,750.00 | .. | 1 | Scientific assistant.....do.. | 2,520.00 | 3 | 1 | Scientific assistant.....do.. | 2,280.00 | 5 | 4 | Scientific assistant.....do.. | 2,100.00 | .. | 1 | Scientific assistant.....do.. | 2,040.00 | 4 | 2 | Scientific assistant.....do.. | 2,000.00 | 2 (1 new) | .. | Scientific assistant.....do.. | 1,980.00 | 1 | 1 | Scientific assistant.....do.. | 1,920.00 | .. | 1 | Scientific assistant.....do.. | 1,800.00 | 3 (new) | 5 | Scientific assistant.....do.. | 1,620.00 | 2 | .. | Scientific assistant.....do.. | 1,500.00 | 1 | 1 | Scientific assistant.....do.. | 1,440.00 | 3 (1 new) | 7 (3 temp.) | Scientific assistant.....do.. | 1,200.00 | 1 (temp.) | 1 (temp.) | Insecticide and fungicide inspector.....do.. | 1,600.00 | 1 (new) | .. | Clerk.....do.. | 1,400.00 | .. | 1 (temp.) | Clerks.....do.. | 1,200.00 | .. | 2 (temp.) | Clerk.....do.. | 1,000.00 | .. | 2 (temp.) | Chemist aid.....do.. | 1,080.00 | 1 (new) | .. | Nurseryman.....do.. | 1,020.00 | 1 | 1 | Field assistants, firemen, char- |  |  |  | women, and clerks, \$900 to \$240.....do.. |  | 3 | 3 | \$3.36 to \$2.50.....per diem.. |  | 2 | 2 |  |  | 38 | 39 | Salaries..... |  | \$67,765.00 | \$53,333.38 | <i>Other objects of expenditure:</i> |  |  |  | Stationery..... |  | 1,200.00 | 711.45 | Traveling expenses..... |  | 18,000.00 | 14,795.56 | Equipment and material..... |  | 12,500.00 | 9,033.98 | Miscellaneous items..... |  | 12,095.00 | 6,809.43 | Total..... |  | 111,560.00 | 84,683.80 |  |  |
| Employees.  | Rate.   | Estimated, 1921.  | Expended, 1919.  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| <i>Salaries:</i>  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Chairman.....per annum..  | \$4,000.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 3,500.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 3,000.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,750.00  | ..  | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,520.00  | 3   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,280.00  | 5   | 4                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,100.00  | ..  | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,040.00  | 4   | 2                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 2,000.00  | 2 (1 new)   | ..               |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,980.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,920.00  | ..  | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,800.00  | 3 (new)   | 5                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,620.00  | 2   | ..               |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,500.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,440.00  | 3 (1 new)   | 7 (3 temp.)      |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Scientific assistant.....do..   | 1,200.00  | 1 (temp.)   | 1 (temp.)        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Insecticide and fungicide inspector.....do..  | 1,600.00  | 1 (new)   | ..               |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Clerk.....do..  | 1,400.00  | ..  | 1 (temp.)        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Clerks.....do..   | 1,200.00  | ..  | 2 (temp.)        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Clerk.....do..  | 1,000.00  | ..  | 2 (temp.)        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Chemist aid.....do..  | 1,080.00  | 1 (new)   | ..               |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Nurseryman.....do..   | 1,020.00  | 1   | 1                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Field assistants, firemen, char-  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| women, and clerks, \$900 to \$240.....do..  |   | 3   | 3                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| \$3.36 to \$2.50.....per diem..   |   | 2   | 2                |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
|   |   | 38  | 39               |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Salaries.....   |   | \$67,765.00   | \$53,333.38      |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| <i>Other objects of expenditure:</i>  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Stationery.....   |   | 1,200.00  | 711.45           |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Traveling expenses.....   |   | 18,000.00   | 14,795.56        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Equipment and material.....   |   | 12,500.00   | 9,033.98         |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Miscellaneous items.....  |   | 12,095.00   | 6,809.43         |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Total.....  |   | 111,560.00  | 84,683.80        |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| <i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i>  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| GENERAL EXPENSES—ENFORCEMENT OF THE INSECTICIDE ACT.  |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| 1 clerk, \$1,000 per annum.   1 clerk, \$900 per annum.   |   |   |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |
| Total for Enforcement of the Insecticide Act -----  | 141,910.00  | 123,940.00  |                  |                 |                  |  |  |  |                          |            |   |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |   |   |                               |          |    |   |                               |          |   |   |                               |          |           |    |                               |          |   |   |                               |          |    |   |                               |          |         |   |                               |          |   |    |                               |          |   |   |                               |          |           |             |                               |          |           |           |  |          |         |    |                |          |    |           |                 |          |    |           |                |          |    |           |                      |          |         |    |                     |          |   |   |                                  |  |  |  |  |  |   |   |                                 |  |   |   |  |  |    |    |               |  |             |             |                                      |  |  |  |                 |  |          |        |                         |  |           |           |                             |  |           |          |                          |  |           |          |            |  |            |           |  |  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

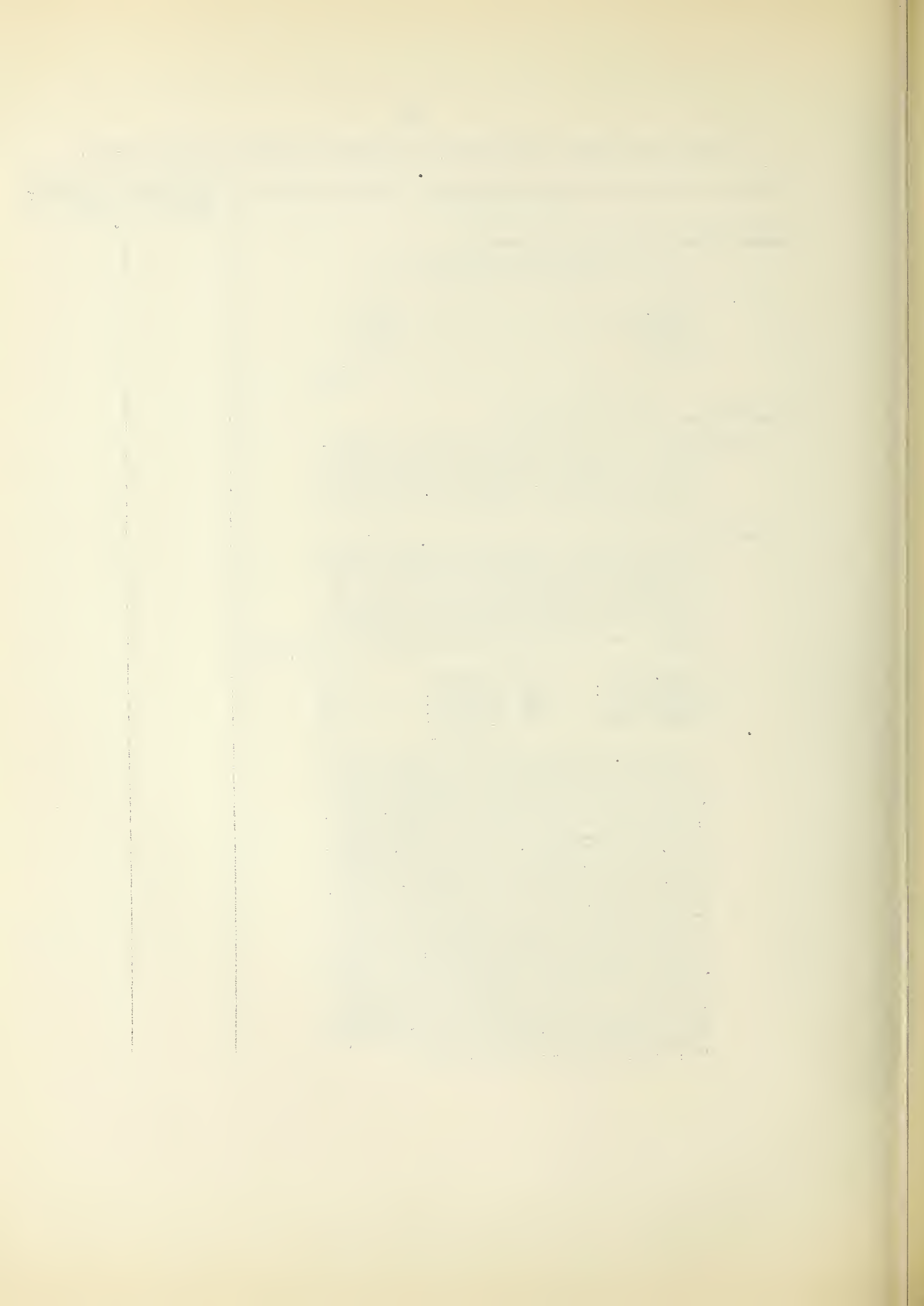
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
|---|--|---|---|-------------------------|-----------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|------------------------------|---------|-------------------------|---------|--|--|-------------------------|---------|--|--|
| FEDERAL HORTICULTURAL BOARD.  |  |   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| <i>Salaries, Federal Horticultural Board—</i>   |  |   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (1)   | One secretary of board ( <i>R. S.</i> , p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, pp. 853, 854, sec. 1; July 24, 1919, vol. 41, p. 267, sec. 1)..... | \$2, 280. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (2)   | One executive clerk (by transfer from lump fund for enforcement of plant quarantine act) ( <i>same acts</i> ).....   | 2, 250. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (3)   | One executive clerk ( <i>same acts</i> ).....  | 2, 000. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (4)   | One clerk ( <i>same acts</i> ).....  | 1, 980. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (5)   | One clerk, class 4 ( <i>same acts</i> ).....   | 1, 800. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (6)   | One clerk (by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....  | 1, 620. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (7)   | Two clerks, class 3 (increase of 1 by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....                                    | 3, 200. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (8)   | One clerk ( <i>same acts</i> ).....  | 1, 560. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (9)   | Three clerks, at \$1,440 each ( <i>same acts</i> ).....  | 4, 320. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (10)  | Three clerks, class 2 (increase of 1 by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....                                  | 4, 200. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (11)  | Two clerks, at \$1,260 each ( <i>same acts</i> ).....  | 2, 520. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (12)  | Eight clerks, class 1 (increase of 1 by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....                                  | 9, 600. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (13)  | One clerk (by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....  | 1, 080. 00  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (14)  | One messenger (by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ).....  | 600. 00   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (15)  | One messenger boy ( <i>same acts</i> ).....  | 600. 00   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (16)  | One messenger boy ( <i>same acts</i> ).....  | 480. 00   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (17)  | Two messenger boys, at \$360 each ( <i>same acts</i> ).....  | 720. 00   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| (18)  | One charwoman ( <i>same acts</i> ).....  | 240. 00   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
|   |  | \$41, 050. 00   | \$31, 300. 00   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| <table> <tr> <td>Appropriations for 1917.....</td><td>\$13, 640</td> <td>Estimates for 1917.....</td><td>\$13, 640</td> </tr> <tr> <td>Appropriations for 1918.....</td><td>20, 500</td> <td>Estimates for 1918.....</td><td>20, 500</td> </tr> <tr> <td>Appropriations for 1919.....</td><td>26, 500</td> <td>Estimates for 1919.....</td><td>26, 500</td> </tr> <tr> <td>Appropriations for 1920.....</td><td>31, 300</td> <td>Estimates for 1920.....</td><td>31, 300</td> </tr> <tr> <td></td><td></td> <td>Estimates for 1921.....</td><td>41, 050</td> </tr> </table> |  | Appropriations for 1917.....                                      | \$13, 640   | Estimates for 1917..... | \$13, 640 | Appropriations for 1918..... | 20, 500 | Estimates for 1918..... | 20, 500 | Appropriations for 1919..... | 26, 500 | Estimates for 1919..... | 26, 500 | Appropriations for 1920..... | 31, 300 | Estimates for 1920..... | 31, 300 |  |  | Estimates for 1921..... | 41, 050 |  |  |
| Appropriations for 1917.....  | \$13, 640  | Estimates for 1917.....   | \$13, 640   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| Appropriations for 1918.....  | 20, 500  | Estimates for 1918.....   | 20, 500   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| Appropriations for 1919.....  | 26, 500  | Estimates for 1919.....   | 26, 500   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| Appropriations for 1920.....  | 31, 300  | Estimates for 1920.....   | 31, 300   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
|   |  | Estimates for 1921.....   | 41, 050   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| NOTE.—Apparent increase, \$9,750; no actual increase, as follows:   |  |   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| <i>Transfer from lump fund for enforcement of plant quarantine act, which fund has been correspondingly reduced.</i>  |  |   |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |
| 1 executive clerk.....  |  | \$2, 250  |   |                         |           |                              |         |                         |         |                              |         |                         |         |                              |         |                         |         |  |  |                         |         |  |  |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <i>Salaries, Federal Horticultural Board—Continued.</i>   |   |   |
| <i>Transfers from lump fund for eradication of pink bollworm, which fund has been correspondingly reduced.</i>  |   |   |
| 1 clerk.....  | \$1,620   |   |
| 1 clerk, class 3.....   | 1,600   |   |
| 1 clerk, class 2.....   | 1,400   |   |
| 1 clerk, class 1.....   | 1,200   |   |
| 1 clerk.....  | 1,080   |   |
| 1 messenger.....  | 600   |   |
|   | <hr/> \$7,500   |   |
| Apparent increase.....  |   | 9,750   |
| <i>General Expenses, Federal Horticultural Board—</i>   |   |   |
| (19) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and for all other necessary expenses, as follows ( <i>acts Mar. 4, 1913, vol. 37, pp. 853, 854, sec. 1; July 24, 1919, vol. 41, pp. 267, 268, sec. 1</i> ):   |   |   |
| (20) To enable the Secretary of Agriculture to carry into effect the provisions of the act of Aug. 20, 1912, as amended, entitled "An act to regulate the importation of nursery stock and other plants and plant products; to enable the Secretary of Agriculture to establish and maintain quarantine districts for plant diseases and insect pests; to permit and regulate the movement of fruits, plants, and vegetables therefrom, and for other purposes" <b>["\$47,700"]</b> ( <i>same acts</i> ).....   |   | \$145,450.00  |
| Appropriation for 1914.....   | \$40,000  | Estimate for 1914..... \$50,000                               |
| Appropriation for 1915.....   | 50,000  | Estimate for 1915..... 50,000                                 |
| Appropriation for 1916.....   | 50,000  | Estimate for 1916..... 50,000                                 |
| Appropriation for 1917.....   | 61,360  | Estimate for 1917..... 61,360                                 |
| Appropriation for 1918.....   | 104,500   | Estimate for 1918..... 54,500                                 |
| Appropriation for 1919.....   | 48,300  | Estimate for 1919..... 48,300                                 |
| Appropriation for 1920.....   | 47,700  | Estimate for 1920..... 47,700                                 |
|   |   | Estimate for 1921..... 145,450                                |
| <p>NOTE.—There is an increase in the above item of \$97,750, but taking into consideration the transfer to the statutory roll of an executive clerk at \$2,250, the actual increase is \$100,000. It is proposed to develop a port inspection service for the purpose of cooperating with officials of the Customs Service and with State officials in the enforcement of quarantines established under the provisions of the plant-quarantine act. The department is now enforcing 14 quarantines prohibiting or restricting the entry of foreign plants, fruits, and plant products. It is also enforcing 7 orders regulating and restricting the entry of additional foreign products. These quarantines and orders are being enforced in cooperation with the Customs Service, but the burden on that service has grown to such an extent that it has been necessary for the Department of Agriculture to take over the actual enforcement of these quarantines at the principal ports of entry, as far as possible, through the service now maintained to prevent the entry into the United States of the pink bollworm of cotton through importations from Egypt, Mexico, and other foreign countries. California and Florida are the only States which have established adequate port inspection services. The department has been able to collaborate with and secure the aid of these State services in the enforcement of the Federal quarantines and restrictive orders now in force. The value of these State services has been fully demonstrated; their work affords a large measure of protection to the whole country. It has become apparent that the port inspection service of this department, already undertaken in a limited way, should be greatly strengthened and enlarged. Without such service new plant enemies may constantly be brought into the United States, thus practically nullifying the protection of existing quarantines.</p> |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
|---|---|---|

*General Expenses, Federal Horticultural Board—Continued.*

| Employees.                             | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| <b>Salaries:</b>                       |            | <i>Number.</i>      | <i>Number.</i>     |
| Chief inspector.....per annum..        | \$3,000.00 | 1                   | 1                  |
| Pathological inspector.....do....      | 3,000.00   | 1                   | 1                  |
| Pathological inspectors.....do....     | 2,400.00   | 2 (1 new)           | 2 (1 temp.)        |
| Pathological inspector.....do....      | 2,340.00   | 1                   | 1                  |
| Pathological inspector.....do....      | 2,200.00   | 1                   | 1                  |
| Pathological inspectors.....do....     | 1,800.00   | 2 (1 new)           | 2 (1 pt. time)     |
| Pathological inspector.....do....      | 1,620.00   | 1                   | 1                  |
| Entomological inspector.....do....     | 1,860.00   | 1                   | 1                  |
| Entomological inspector.....do....     | 1,830.00   | 1                   | 1                  |
| Entomological inspectors.....do....    | 1,600.00   | 3 (1 new)           | 2                  |
| Entomological inspector.....do....     | 1,200.00   | ..                  | 1                  |
| Plant quarantine inspector.....do....  | 2,550.00   | 1                   | 1                  |
| Plant quarantine inspectors.....do.... | 2,400.00   | 10                  | ..                 |
| Plant quarantine inspectors.....do.... | 2,250.00   | 1 (new)             | 1 (temp.)          |
| Plant quarantine inspectors.....do.... | 2,000.00   | 4                   | ..                 |
| Plant quarantine inspectors.....do.... | 1,800.00   | 6                   | 1                  |
| Plant quarantine inspectors.....do.... | 1,600.00   | 9                   | 1                  |
| Plant quarantine inspectors.....do.... | 1,440.00   | 3 (1 new)           | 2                  |
| Plant quarantine inspector.....do....  | 1,200.00   | ..                  | 1                  |
| Executive clerk.....do....             | 2,250.00   | ..                  | 1                  |
| Clerk.....do....                       | 1,600.00   | ..                  | 1 (pt. time)       |
| Clerks.....do....                      | 1,400.00   | 5                   | ..                 |
| Clerks.....do....                      | 1,000.00   | ..                  | 2 (temp.)          |
| Messenger boy.....do....               | 600.00     | ..                  | 1                  |
| Collaborators, \$300 to \$1.....do.... | ..         | 85 (8 new)          | 84 (7 temp.)       |
| <b>Wages:</b>                          |            |                     |                    |
| Laborers.....per diem..                | 3.00       | 25 (temp.)          | ..                 |
|  |            | 163                 | 110                |
| Salaries.....                          |            | \$92,300.00         | \$38,370.41        |
| Wages.....                             |            | 6,000.00            | ..                 |
| <b>Other objects of expenditure:</b>   |            |                     |                    |
| Stationery.....                        |            | 3,000.00            | 1,532.01           |
| Traveling expenses.....                |            | 16,750.00           | 3,405.34           |
| Equipment and material.....            |            | 1,500.00            | 904.29             |
| Telegraph and telephone service.....   |            | 2,000.00            | ..                 |
| Miscellaneous items.....               |            | 23,900.00           | 1,809.96           |
| <b>Total.....</b>                      |            | <b>145,450.00</b>   | <b>46,022.01</b>   |

- (21) To enable the Secretary of Agriculture to meet the emergency caused by the establishment of the potato wart in eastern Pennsylvania, and to provide means for the extermination of this disease in Pennsylvania or elsewhere in the United States in cooperation with the State or States concerned, including rent outside the District of Columbia, employment of labor in the city of Washington or elsewhere, and all other necessary expenses (*acts Mar. 4, 1913, vol. 37, pp. 853, 854, sec. 1; July 24, 1919, vol. 41, pp. 267, 268, sec. 1*)— \$50,000.00

Appropriation for 1920..... \$50,000 | Estimate for 1920..... \$50,000  
 Estimate for 1921..... 50,000

| Employees.                           | Rate.      | Estimated,<br>1921. | Expended,<br>1919. <sup>1</sup> |
|--------------------------------------|------------|---------------------|---------------------------------|
| <b>Salaries:</b>                     |            | <i>Number.</i>      | <i>Number.</i>                  |
| Field assistants.....per annum..     | \$2,400.00 | 2 (pt. time)        | ..                              |
| Field assistants.....do....          | 2,100.00   | 1 (pt. time)        | ..                              |
| Field assistants.....do....          | 1,800.00   | 11 (pt. time)       | ..                              |
| Field assistants.....do....          | 1,620.00   | 2 (pt. time)        | ..                              |
| Field assistants.....do....          | 1,500.00   | 4 (pt. time)        | ..                              |
| Plant pathologist.....do....         | 1,800.00   | 1 (pt. time)        | ..                              |
|                                      |            | 21                  | ..                              |
| Salaries.....                        |            | \$20,000.00         | ..                              |
| <b>Other objects of expenditure:</b> |            |                     |                                 |
| Stationery.....                      |            | 500.00              | ..                              |
| Traveling expenses.....              |            | 10,000.00           | ..                              |
| Equipment and material.....          |            | 1,000.00            | ..                              |
| Miscellaneous items.....             |            | 18,500.00           | ..                              |
| <b>Total.....</b>                    |            | <b>50,000.00</b>    | <b>..</b>                       |

<sup>1</sup> No appropriation for the fiscal year 1919.

In all, for general expenses.....

\$195,450.00

\$97,700.00

|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1914..... | \$40,000 | Estimate for 1914..... | \$50,000 |
| Appropriation for 1915..... | 50,000   | Estimate for 1915..... | 50,000   |
| Appropriation for 1916..... | 50,000   | Estimate for 1916..... | 50,000   |
| Appropriation for 1917..... | 61,360   | Estimate for 1917..... | 61,360   |
| Appropriation for 1918..... | 104,500  | Estimate for 1918..... | 54,500   |
| Appropriation for 1919..... | 48,300   | Estimate for 1919..... | 48,300   |
| Appropriation for 1920..... | 97,700   | Estimate for 1920..... | 47,700   |
|                             |          | Estimate for 1921..... | 195,450  |

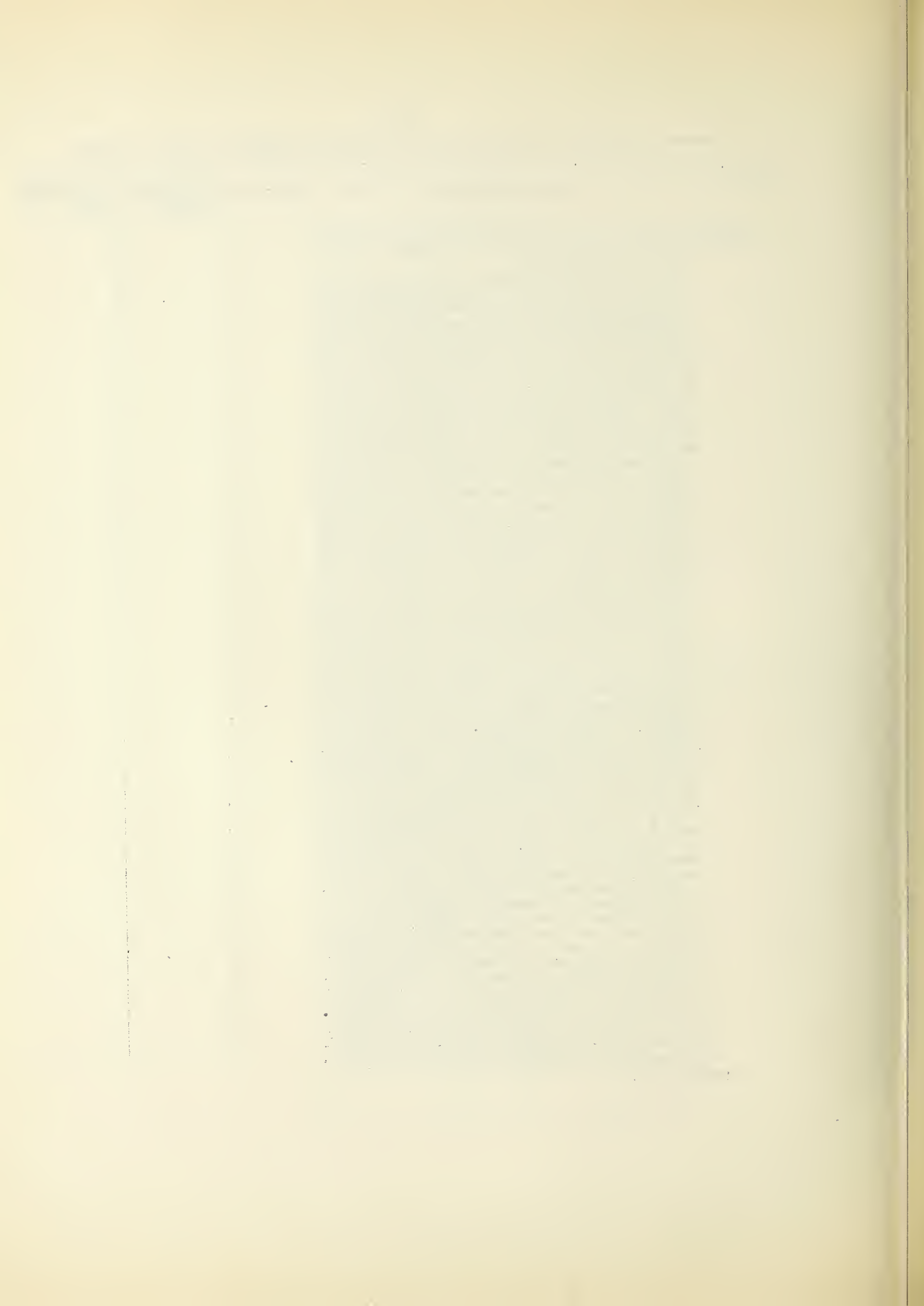




## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

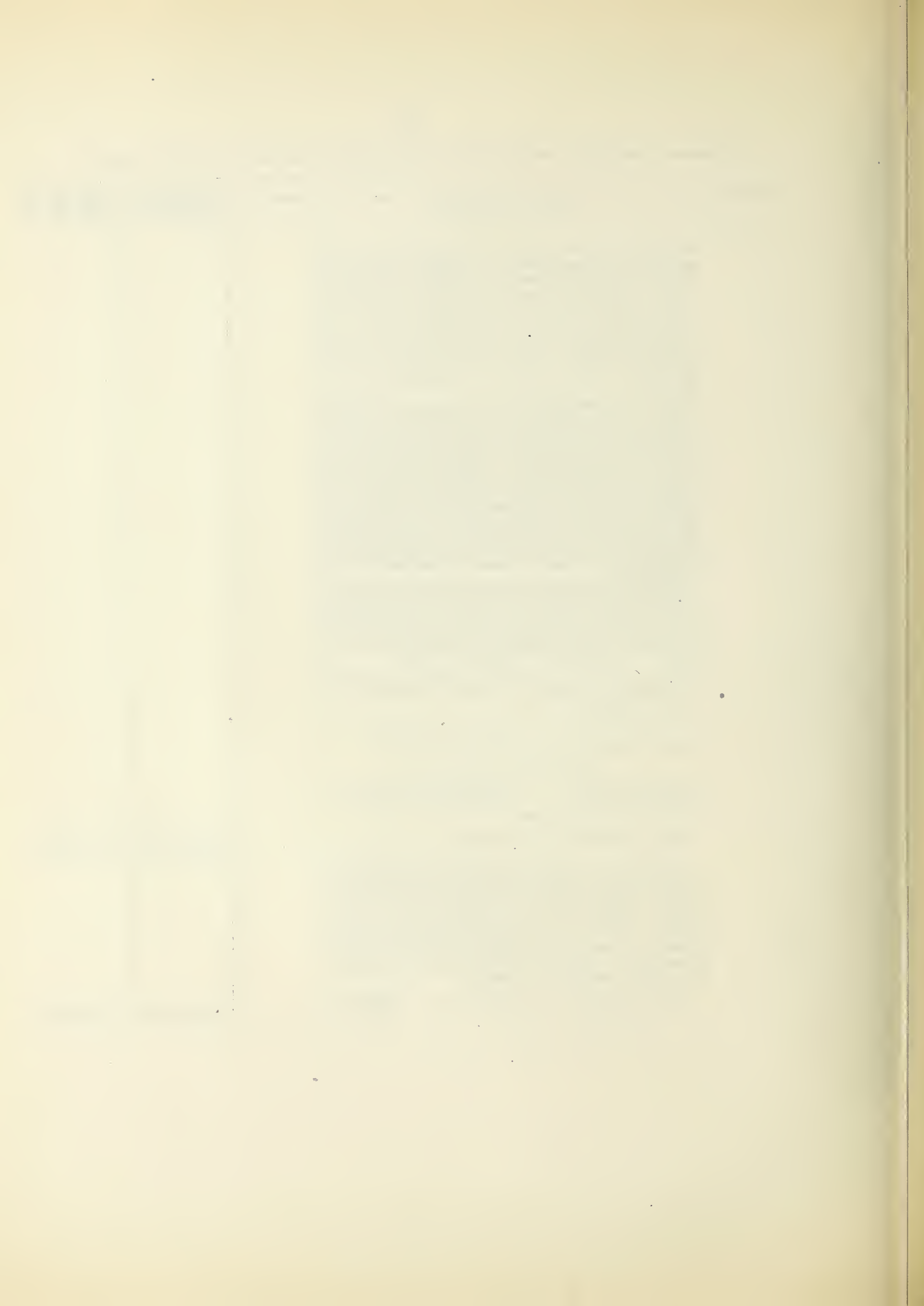
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <p>(22) <i>That the plant quarantine act, approved Aug. 20, 1912 (37th Stat., p. 315), be, and is hereby, amended by adding at the end thereof the following section:</i></p> <p><i>"Sec. 15. That in order further to control and eradicate and to prevent the dissemination of dangerous plant diseases and insect infections and infestations no plant or plant products for or capable of propagation, including nursery stock, hereinafter referred to as plants and plant products, shall be moved or allowed to be moved, shipped, transported, or carried by any means whatever into or out of the District of Columbia, except in compliance with such rules and regulations as shall be prescribed by the Secretary of Agriculture as hereinafter provided. Whenever the Secretary of Agriculture, after investigation, shall determine that any plants and plant products in the District of Columbia are infested or infected with insect pests and diseases and that any place, articles, and substances used or connected therewith are so infested or infected, written notice thereof shall be given by him to the owner or person in possession or control thereof, and such owner or person shall forthwith control or eradicate and prevent the dissemination of such insect pest or disease and shall remove, cut, or destroy such infested and infected plants, plant products, and articles and substances used or connected therewith, which are hereby declared to be nuisances, within the time and in the manner required in said notice or by the rules and regulations of the Secretary of Agriculture. Whenever such owner or person can not be found, or shall fail, neglect, or refuse to comply with the foregoing provisions of this section, the Secretary of Agriculture is hereby authorized and required to control and eradicate and prevent dissemination of such insect pest or disease and to remove, cut, or destroy infested or infected plants and plant products and articles and substances used or connected therewith, and the United States shall have an action of debt against such owner or persons for expenses incurred by the Secretary of Agriculture in that behalf. Employees of the Federal Horticultural Board are hereby authorized and required to inspect places, plants, and plant products and articles and substances used or connected therewith whenever the Secretary of Agriculture shall determine that such inspections are necessary for the purposes of this section. For the purpose of carrying out the provisions and requirements of this section and of the rules and regulations of the Secretary of Agriculture made hereunder, and the notices given pursuant thereto, employees of the Federal Horticultural Board shall have power with a warrant to enter into or upon any place and open any bundle, package, or other container of plants or plant products whenever they shall have cause to believe that infections or infestations of plant pests and diseases exist therein or thereon, and when such infections or infestations are found to exist, after notice by the Secretary of Agriculture to the owner or person in possession or control thereof and an opportunity by said owner or person to be heard, to destroy the infected or infested plants or plant products contained therein. The police court or the municipal court of the District of Columbia shall have power, upon information supported by oath or affirmation showing probable cause for believing that there exists in any place, bundle, package, or other container in the District of Columbia any plant or plant product which is infected or infested with plant pests or</i></p> |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

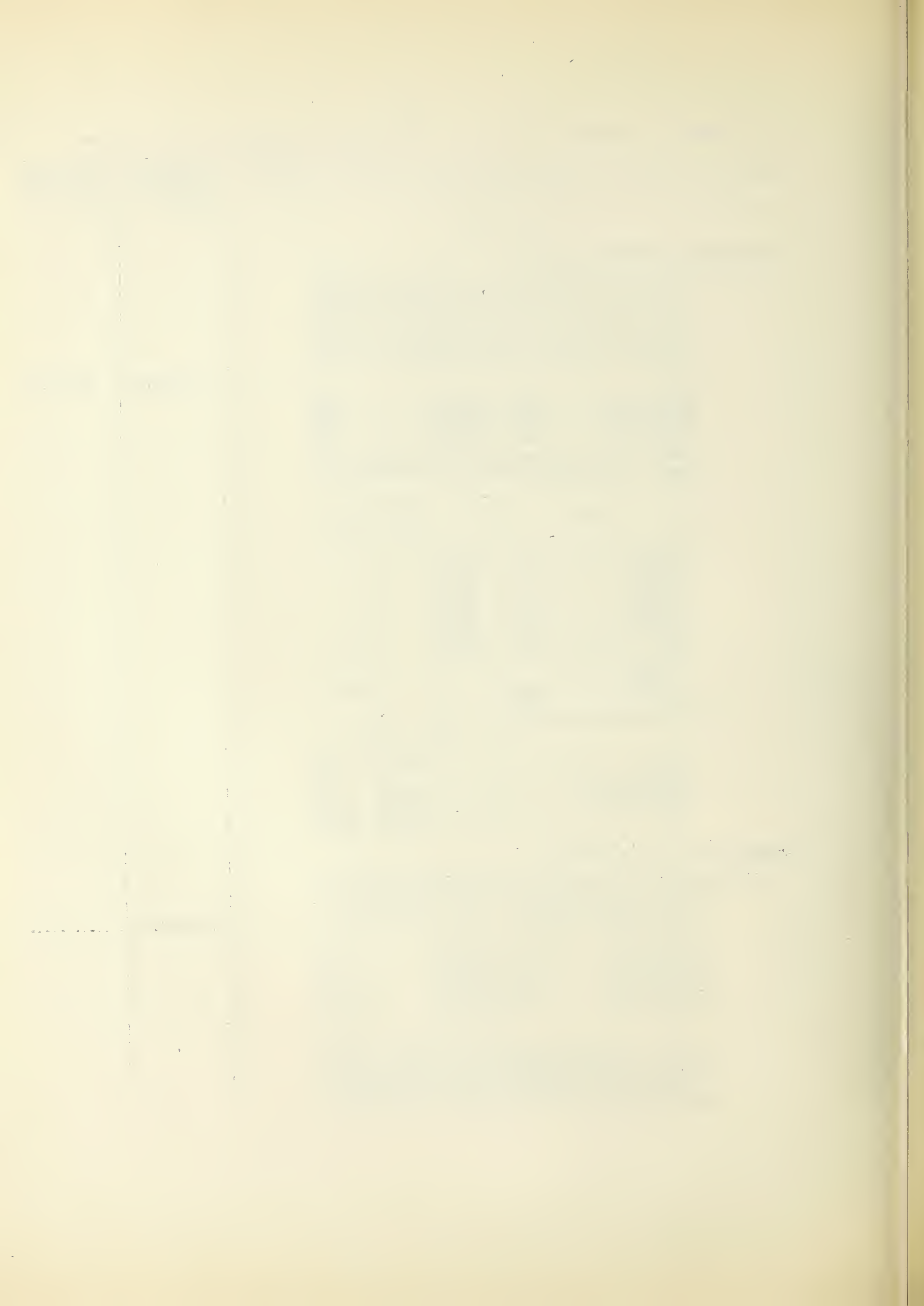
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <p><i>disease, to issue warrants for the search for and seizure of all such plants and plant products. It shall be the duty of the Secretary of Agriculture, and he is hereby required, from time to time, to make and promulgate such rules and regulations as shall be necessary to carry out the purposes of this section, and any person who shall move or allow to be moved, or shall ship, transport, or carry, by any means whatever, any plant or plant products from or into the District of Columbia, except in compliance with the rules and regulations prescribed under this section, shall be punished, as is provided in section 10 of this act."</i></p> <p>NOTE.—This amendment to the plant quarantine act, which received the approval of both the House and Senate Committees on Agriculture during consideration of the estimates for 1920, but failed of enactment, confers on the Secretary of Agriculture authority to regulate the movement of plants and plant products, including nursery stock, from or into the District of Columbia, and power to control injurious plant diseases and insect pests within the District. There is at present no law under which the movement of diseased and insect-infested nursery stock and other plants and plant products into the District of Columbia from surrounding or other States or from the District of Columbia into surrounding or other States can be adequately controlled; nor is there authority for control and extermination within the District of Columbia of plant pests and diseases. The powers requested are such as are exercised in practically all the States and Territories of the United States and are necessary for the alignment of the District of Columbia with plant pest control exercised elsewhere.</p> <p>The immediate need of this legislation is evidenced by the fact that the oriental fruit moth, which threatens seriously to affect the fruit industry of the United States, gained entrance in large part through importations of ornamental stock into the District of Columbia, and there exist now within the District thousands of peach, cherry, plum, apple, and other trees infested with this insect, affording breeding sources from which the moth has spread to the adjacent States of Maryland and Virginia.</p> <p><i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1919 (32 Stat., p. 303).</i></p> <p>GENERAL EXPENSES—FEDERAL HORTICULTURAL BOARD.</p> <p>1 clerk, \$2,250 per annum.   1 clerk, \$1,000 per annum.</p> <p>ERADICATION OF PINK BOLLWORM.</p> <p>1 clerk, \$1,560 per annum.   4 clerks, at \$1,200 each per annum.<br/>1 clerk, \$1,440 per annum.   1 clerk, \$1,100 per annum.<br/>2 clerks, at \$1,400 each per annum.</p> |   |   |
| Total for Federal Horticultural Board.....   | \$236, 500. 00  | \$129, 000. 00  |
| <p>And not to exceed 10 per centum of the foregoing amounts for the miscellaneous expenses of the work of any bureau, division, or office herein provided for shall be available interchangeably for expenditures on the objects included within the general expenses of such bureau, division, or office, but no more than 10 per centum shall be added to any one item of appropriation except in cases of extraordinary emergency, and then only upon the written order of the Secretary of Agriculture.</p>  |   |   |
| Total, Department of Agriculture, for routine and ordinary work.....   | 34,692,542.00   | 31,355,361.00   |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                 |
|--|---|---|-----------------|
| MISCELLANEOUS.   |   |   |                 |
| Demonstrations on Reclamation Projects—  |   |   |                 |
| (1) To enable the Secretary of Agriculture to encourage and aid in the agricultural development of the Government reclamation projects; to assist, through demonstrations, advice, and in other ways, settlers on the projects; and for the employment of persons and means necessary in the city of Washington and elsewhere, <del>["\$48,600"]</del> \$47,000 (acts June 30, 1914, vol. 38, p. 440, sec. 1; July 24, 1919, vol. 41, p. 268, sec. 1) -----  | \$47, 000. 00   | \$48, 600. 00   |                 |
| Appropriation for 1915..... \$40,000   Estimate for 1916..... \$50,000<br>Appropriation for 1916..... 40,000   Estimate for 1917..... 40,000<br>Appropriation for 1917..... 40,000   Estimate for 1918..... 50,000<br>Appropriation for 1918..... 50,000   Estimate for 1919..... 48,600<br>Appropriation for 1919..... 48,600   Estimate for 1920..... 48,600<br>Appropriation for 1920..... 48,600   Estimate for 1921..... 47,000   |   |   |                 |
| NOTE.—There is an apparent decrease in this item of \$1,600, due to the transfer to the statutory roll of the Bureau of Plant Industry of 1 clerk of class 3.  |   |   |                 |
| Employees.   | Rate.   | Estimated, 1921.  | Expended, 1919. |
| Salaries:  |   | Number.   | Number.         |
| Agriculturist in charge.....per annum..  | \$3,500.00  | 1   | ..              |
| Agriculturist.....do.....  | 3,000.00  | ..  | 1               |
| Agriculturist.....do.....  | 2,600.00  | ..  | 1               |
| Agriculturists.....do.....   | 2,400.00  | 1   | 2               |
| Agriculturists.....do.....   | 2,280.00  | 5   | 3               |
| Agriculturist.....do.....  | 2,250.00  | 1   | 1               |
| Agriculturists.....do.....   | 2,220.00  | 3   | ..              |
| Agriculturists.....do.....   | 2,040.00  | ..  | 3               |
| Agriculturist.....do.....  | 1,980.00  | 1   | 1               |
| Agronomist.....do.....   | 3,500.00  | ..  | 1               |
| Farm superintendent.....do.....  | 2,280.00  | ..  | 1               |
| Clerk.....do.....  | 1,600.00  | ..  | 1               |
| Clerk.....do.....  | 1,400.00  | ..  | 1 (temp.)       |
| Messenger boy, clerk, and col-<br>laborators—  |   |   |                 |
| \$480.....do.....  |   | 11  | 1               |
| \$65 to \$25.....per month..   |   | ..  | 2 (1 temp.)     |
| \$0.35 to \$0.25.....per hour..  |   | ..  | 5               |
| Wages:   |   |   |                 |
| Miscellaneous temporary labor.....per diem..   | 5.00  | ..  | 2               |
| .....per hour..  | .50   | ..  | 1               |
|  |   | 23  | 27              |
| Salaries.....  |   | \$31,810.00   | \$28,518.43     |
| Wages.....   |   |   | 28.00           |
| Other objects of expenditure:  |   |   |                 |
| Stationery.....  |   | 200.00  | 473.38          |
| Traveling expenses.....  |   | 12,530.00   | 3,851.56        |
| Equipment and material.....  |   | 1,000.00  | 2,840.94        |
| Miscellaneous items.....   |   | 1,460.00  | 8,938.16        |
| Total.....   |   | 47,000.00   | 44,680.47       |
| Fighting and Preventing Forest Fires—  |   |   |                 |
| (2) For fighting and preventing forest fires, \$1,000,000, or so much thereof as may be necessary, but not to exceed \$150,000 of of this fund shall be expended except in cases of extraordinary emergency (submitted) -----  | 1, 000, 000. 00   | -----   |                 |
| Appropriation for 1912..... \$1,150,000   Estimate for 1912..... \$135,000<br>Appropriation for 1913..... 350,000   Estimate for 1913..... 1,150,000<br>Appropriation for 1914..... 350,000   Estimate for 1914..... 150,000<br>Appropriation for 1915..... 250,000   Estimate for 1915..... 150,000<br>Appropriation for 1916..... 150,000   Estimate for 1916..... 150,000<br>Appropriation for 1917..... 150,000   Estimate for 1917..... 150,000<br>Appropriation for 1918..... 150,000   Estimate for 1918..... 150,000<br>Appropriation for 1919..... 150,000   Estimate for 1919..... 150,000<br>Appropriation for 1920..... 150,000   Estimate for 1920..... 150,000<br> |   |   |                 |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
|---|---|---|------------------------|-----------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|-----------------------------|---------|------------------------|---------|--------------|--------------|
| <p><i>Fighting and Preventing Forest Fires—Continued.</i></p> <p>“for fighting forest fires and for other unforeseen emergencies” has been included annually since 1912. It is proposed to omit this item and include it in the new item, so that the \$150,000 will still be available for use in fighting fires in ordinary emergency where they get beyond the control of the regular protective organization, with \$850,000 additional to meet extraordinary emergencies. Since the fiscal year 1915 it has been necessary to cover expenses for fighting forest fires during extraordinary emergencies by drawing on all general expense funds and depending on Congress to reimburse these funds through deficiency appropriations that have enabled the administrative work to go on through the balance of the fiscal year. Fortunately, the necessity for emergency expenditures on a large scale usually arises early in the fiscal year, thus affording opportunity for Congress to act. The necessity, however, of holding a considerable balance available for meeting emergencies which may arise at the very end of the fiscal year works against the most advantageous use of the administrative appropriation. In the 10 fiscal years 1910 to 1919, inclusive, the expenditures for fighting forest fires totaled \$6,974,278, or approximately a yearly average of \$700,000. During the three extremely bad fire years, namely, 1910, 1917, and 1919, the deficiencies incurred ran over an average of \$1,000,000—\$900,000, \$775,000, and \$2,950,000, respectively. These expenditures indicate clearly that the annual \$150,000 fund is seldom sufficient. To depend on a deficiency appropriation as a means for financing extraordinary fire emergencies has been particularly unsatisfactory, and during the three extraordinary years has threatened the continuity of the entire administrative work and been a source of material embarrassment to the Forest Service. In the face of such positive warnings of the past, to continue the present policy and fail to provide in advance an adequate and elastic financial basis for meeting fire emergencies is not believed wise. It is urgently recommended, therefore, that this item, <i>which is merely an insurance fund, to be expended only in case of actual necessity</i>, be approved.</p> <p>NOTE.—This being an emergency appropriation, it is impracticable to submit the detailed estimate of expenditures required by section 19 of the sundry civil act of Aug. 1, 1914.</p> |   |   |                        |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| <p><i>Cooperative Fire Protection of Forested Watersheds of Navigable Streams—</i></p> <p>(3) For cooperation with any State or group of States in the protection from fire of the forested watersheds of navigable streams under the provisions of section 2 of the act of Mar. 1, 1911, entitled “An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of the watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers,” <b>["\$100,000"]</b> \$200,000 (<i>acts Mar. 1, 1911, vol. 36, p. 961, sec. 1; July 24, 1919, vol. 41, p. 268, sec. 1</i>)-----</p> <table><tr><td>Appropriation for 1915.....</td><td>\$100,000</td><td>Estimate for 1916.....</td><td>\$100,000</td></tr><tr><td>Appropriation for 1916.....</td><td>100,000</td><td>Estimate for 1917.....</td><td>100,000</td></tr><tr><td>Appropriation for 1917.....</td><td>100,000</td><td>Estimate for 1918.....</td><td>100,000</td></tr><tr><td>Appropriation for 1918.....</td><td>100,000</td><td>Estimate for 1919.....</td><td>100,000</td></tr><tr><td>Appropriation for 1919.....</td><td>100,000</td><td>Estimate for 1920.....</td><td>100,000</td></tr><tr><td>Appropriation for 1920.....</td><td>100,000</td><td>Estimate for 1921.....</td><td>200,000</td></tr></table> <p>NOTE.—There is an increase in this item of \$100,000, the purpose of which is to enable the Government to extend its cooperative assistance in fire protection to a larger number of States and to make more effective the protection in States already cooperating. In view of the extensive losses from forest fires which are still taking place throughout the country, the meager provision in most States for the prevention of such losses and in some important timber States the lack of any provision at all, and, on the other hand, in view of the beneficial results which have been obtained with the relatively small appropriations made in the past, the increase is believed to be fully justified. Since 24 States are now cooperating, the Federal funds available for cooperative expenditure in any one State are necessarily very small and are subject to future decreases as new States qualify for allotments. The increase will make it possible to stimulate materially the protection of forests against fire, which is the first step toward the solution of our forest problem.</p>                         | Appropriation for 1915.....                                       | \$100,000   | Estimate for 1916..... | \$100,000 | Appropriation for 1916..... | 100,000 | Estimate for 1917..... | 100,000 | Appropriation for 1917..... | 100,000 | Estimate for 1918..... | 100,000 | Appropriation for 1918..... | 100,000 | Estimate for 1919..... | 100,000 | Appropriation for 1919..... | 100,000 | Estimate for 1920..... | 100,000 | Appropriation for 1920..... | 100,000 | Estimate for 1921..... | 200,000 | \$200,000.00 | \$100,000.00 |
| Appropriation for 1915.....   | \$100,000   | Estimate for 1916.....  | \$100,000              |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1916.....   | 100,000   | Estimate for 1917.....  | 100,000                |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1917.....   | 100,000   | Estimate for 1918.....  | 100,000                |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1918.....   | 100,000   | Estimate for 1919.....  | 100,000                |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1919.....   | 100,000   | Estimate for 1920.....  | 100,000                |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |
| Appropriation for 1920.....   | 100,000   | Estimate for 1921.....  | 200,000                |           |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |                             |         |                        |         |              |              |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.

Total amount to be appropriated under each head of appropriation. Amount appropriated for the fiscal year ending June 30, 1920.

*Cooperative Fire Protection of Forested Watersheds of Navigable Streams—Continued.*

| Employees.   | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| Salaries:  |            | <i>Number.</i>      | <i>Number.</i>     |
| Chief of State cooperation....per annum..                      | \$3,000.00 | 1(pt.time).         | 1(pt.time).        |
| Chief of State cooperation.....do.....                         | 2,800.00   | 1(pt.time).         | 1(pt.time).        |
| Examiner.....do.....   | 2,700.00   | 1(pt.time).         | 1(pt.time).        |
| Examiner.....do.....   | 2,500.00   | 1(pt.time).         | 1(pt.time).        |
| Examiners.....do.....  | 2,520.00   | 2 (1 new).          | 1                  |
| Examiners.....do.....  | 2,300.00   | 1                   | 1                  |
| Examiners.....do.....  | 1,600.00   | 1                   | 1                  |
| Collaborators.....do.....                                      | 12.00      | 30                  | 27                 |
| Wages:   |            |                     |                    |
| Patrolmen and laborers,<br>\$127.50 to \$75.....per month..... |            | 500 (temp.).        | 275 (temp.).       |
|  |            | 534                 | 306                |
| Salaries.....  |            | \$8,250.00          | \$5,576.87         |
| Wages.....   |            | 186,050.00          | 88,033.58          |
| Other objects of expenditures:                                 |            |                     |                    |
| Traveling expenses.....  |            | 5,700.00            | 2,611.33           |
| Miscellaneous items.....                                       |            |                     | 738.74             |
| Total.....   |            | 200,000.00          | 96,960.52          |

*Experiments and Demonstrations in Live-Stock Production in the Cane-sugar and Cotton Districts of the United States—*

- (4) To enable the Secretary of Agriculture, in cooperation with the authorities of the States concerned, or with individuals, to make such investigations and demonstrations as may be necessary in connection with the development of live-stock production in the cane-sugar and cotton districts of the United States, including the erection of barns and other necessary buildings, and the employment of persons and means in the city of Washington and elsewhere (*acts June 30, 1914, vol. 38, p. 441, sec. 1; July 24, 1919, vol. 41, p. 268, sec. 1*) .....

\$60,000.00

\$60,000.00

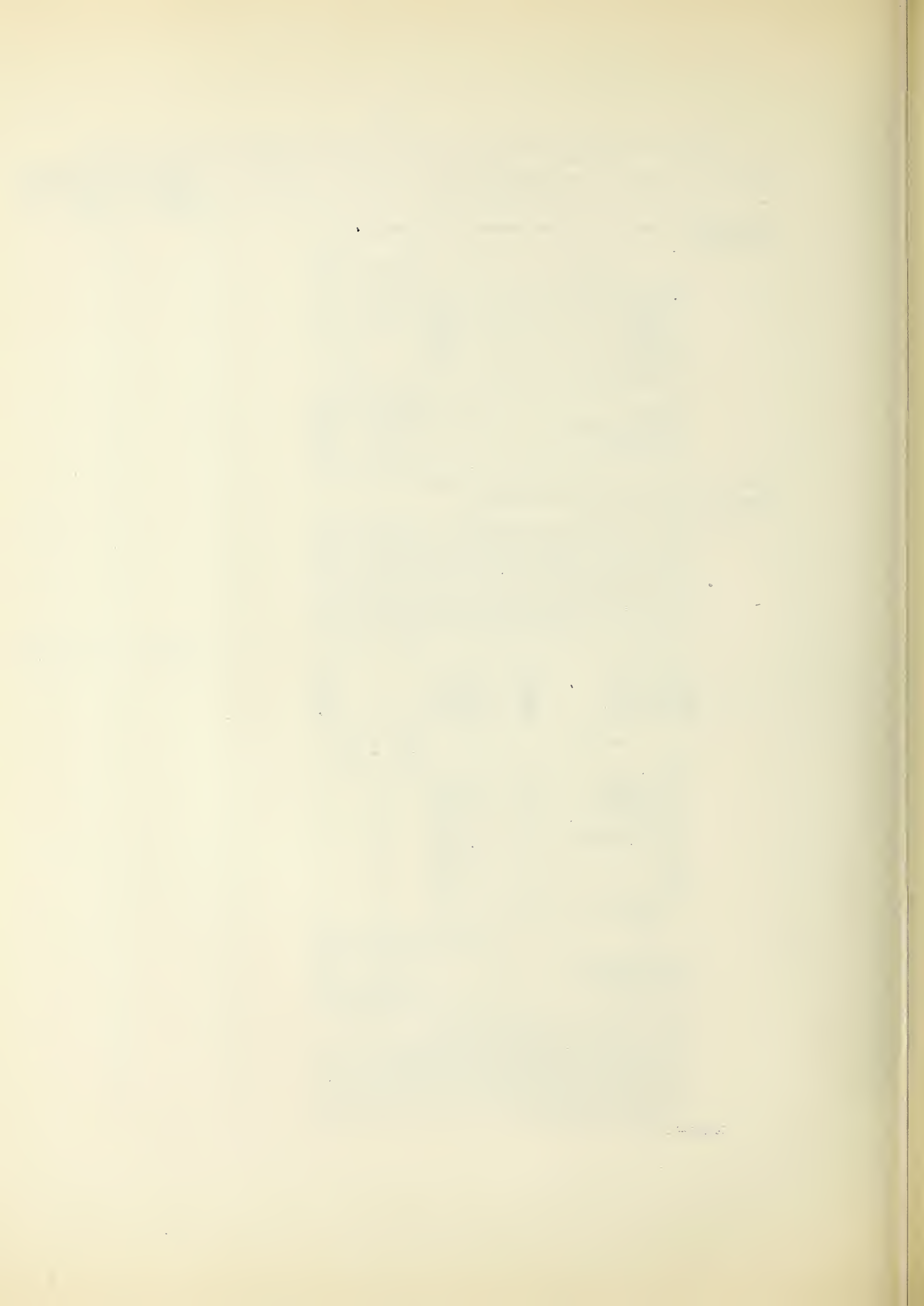
|                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| Appropriation for 1915..... | \$60,000 | Estimate for 1916..... | \$60,000 |
| Appropriation for 1916..... | 60,000   | Estimate for 1917..... | 60,000   |
| Appropriation for 1917..... | 60,000   | Estimate for 1918..... | 60,000   |
| Appropriation for 1918..... | 60,000   | Estimate for 1919..... | 60,000   |
| Appropriation for 1919..... | 60,000   | Estimate for 1920..... | 60,000   |
| Appropriation for 1920..... | 60,000   | Estimate for 1921..... | 60,000   |

| Employees.                             | Rate.      | Estimated,<br>1921. | Expended,<br>1919. |
|--|------------|---------------------|--------------------|
| Salaries:                              |            | <i>Number.</i>      | <i>Number.</i>     |
| Live-stock agent.....per annum..       | \$2,520.00 | 1                   | 1                  |
| Live-stock specialist.....do.....      | 2,100.00   | 1                   | 1                  |
| Dairy husbandman.....do.....           | 1,980.00   | 1                   | 1                  |
| Dairy husbandman.....do.....           | 1,500.00   | 1                   | 1                  |
| Agent in swine husbandry.....do.....   | 1,700.00   | 1                   | 1                  |
| Agent in dairying.....do.....          | 1,500.00   | 1                   | 1                  |
| Herdsmen.....do.....                   | 1,200.00   | 1                   | 1                  |
| Agent in poultry husbandry.....do..... | 120.00     | 1                   | 1                  |
| Executive assistant.....do.....        | 1,500.00   | 1                   | 1                  |
| Clerk.....do.....                      | 1,440.00   | 1                   | 1                  |
| Clerk.....do.....                      | 1,200.00   | 1                   | 1                  |
| Clerk.....do.....                      | 360.00     | 1                   | 1                  |
| Wages:                                 |            |                     |                    |
| Laborer.....do.....                    | 900.00     | 1                   | 1                  |
| Laborer.....per month.....             | 100.00     | 1                   | 1                  |
| Miscellaneous temporary labor—         |            |                     |                    |
| \$75 to \$5.....do.....                |            | 4                   | 4                  |
| \$2.50 to \$0.75.....per diem.....     |            | 20                  | 27                 |
|  |            | 32                  | 40                 |
| Salaries.....                          |            | \$11,720.00         | \$11,060.00        |
| Wages.....                             |            | 11,780.00           | 15,878.35          |
| Other objects of expenditure:          |            |                     |                    |
| Traveling expenses.....                |            | 1,500.00            | 3,810.37           |
| Equipment and material.....            |            | 7,670.00            | 4,845.02           |
| Miscellaneous items.....               |            | 13,830.00           | 22,882.57          |
| Construction work.....                 |            | 13,500.00           |                    |
| Total.....                             |            | 60,000.00           | 58,476.31          |

<sup>1</sup> This construction work consists of the following buildings:

|  |          |
|--|----------|
| 1 wooden silo at the Iberia Live Stock Experiment Farm, Jeanerette, La., 14 by 36 feet, containing 5,542 cubic feet, at 10.8 cents per cubic foot..... | \$600.00 |
| 1 extension to beef cattle barn, one-story frame, with prepared roofing, containing 34,560 cubic feet, at approximately 7 cents per cubic foot.....    | 2,400.00 |
| 2 lean-to sheds, frame, 20 by 134 feet, containing 42,880 cubic feet, at 2.3 cents per cubic foot.....   | 1,000.00 |
| 1 horse barn, one-story frame with corrugated asbestos roofing, containing 48,960 cubic feet, at 7.2 cents per cubic foot.....                         | 3,500.00 |
| 6 negro cabins, one-story frame with prepared roofing, containing 5,460 cubic feet each, at 11 cents per cubic foot.....                               | 6,000.00 |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
|---|---|---|------------------------|----------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|-----------------------------|--------|------------------------|--------|--|--|------------------------|--------|------------|-------|---------------------|--------------------|------------------|--|----------------|----------------|----------------------------------|------------|---|--|--------------------------------------|----------|---|---|-----------------------------------|----------|--|---|---------------------------------------|----------|---|--|--|----------|--|---|---|----------|--|---|---------------|--|--|--|----------------------|----------|---|--|----------------------|----------|--|---|----------------------|----------|---|---|--------------------------------|--|--|--|----------------------------|--|--|---|------------------------------|--|---|---|------------------------------|--|--|---|--|--|----|----|---------------|--|-------------|------------|------------|--|----------|----------|--------------------------------------|--|--|--|-------------------------|--|--------|--------|-----------------------------|--|----------|----------|--------------------------|--|----------|----------|------------------------|--|-----------|--|-------------------|--|------------------|------------------|-------------|-------------|
| <p><i>Experiments in Dairying and Live-Stock Production in Semiarid and Irrigated Districts of the Western United States—</i></p> <p>(5) To enable the Secretary of Agriculture to conduct investigations and experiments in problems connected with the establishment of dairying and meat-production enterprises on the semiarid and irrigated lands of the western United States, including the purchase of live stock, the erection of barns and other necessary buildings, and the employment of necessary persons and means in the city of Washington and elsewhere (<i>acts Aug. 11, 1916, vol. 39, p. 491, sec. 1; July 24, 1919, vol. 41, p. 268, sec. 1</i>) -----</p> <table><tr><td>Appropriation for 1917.....</td><td>\$40,000</td><td>Estimate for 1917.....</td><td>\$87,500</td></tr><tr><td>Appropriation for 1918.....</td><td>40,000</td><td>Estimate for 1918.....</td><td>40,000</td></tr><tr><td>Appropriation for 1919.....</td><td>40,000</td><td>Estimate for 1919.....</td><td>40,000</td></tr><tr><td>Appropriation for 1920.....</td><td>40,000</td><td>Estimate for 1920.....</td><td>40,000</td></tr><tr><td></td><td></td><td>Estimate for 1921.....</td><td>40,000</td></tr></table> <table><tr><th>Employees.</th><th>Rate.</th><th>Estimated,<br/>1921.</th><th>Expended,<br/>1919.</th></tr><tr><td><b>Salaries:</b></td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr><tr><td>Dairy husbandman.....per annum..</td><td>\$2,000.00</td><td>1</td><td></td></tr><tr><td>Assistant dairy husbandmen.....do...</td><td>1,620.00</td><td>3</td><td>1</td></tr><tr><td>Senior dairy herdsman.....do.....</td><td>1,440.00</td><td></td><td>1</td></tr><tr><td>Assistant animal husbandmen.....do...</td><td>1,600.00</td><td>3</td><td></td></tr><tr><td>Scientific assistant in husbandry.....do..</td><td>1,380.00</td><td></td><td>1</td></tr><tr><td>Assistant animal husbandman.....do.....</td><td>1,380.00</td><td></td><td>1</td></tr><tr><td><b>Wages:</b></td><td></td><td></td><td></td></tr><tr><td>Laborers.....do.....</td><td>1,140.00</td><td>1</td><td></td></tr><tr><td>Laborers.....do.....</td><td>1,020.00</td><td></td><td>1</td></tr><tr><td>Laborers.....do.....</td><td>1,000.00</td><td>5</td><td>1</td></tr><tr><td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr><tr><td>    \$900 to \$720.....do.....</td><td></td><td></td><td>4</td></tr><tr><td>    \$85 to \$30.....per month..</td><td></td><td>5</td><td>4</td></tr><tr><td>    \$6 to \$2.50.....per diem..</td><td></td><td></td><td>2</td></tr><tr><td></td><td></td><td>18</td><td>16</td></tr><tr><td>Salaries.....</td><td></td><td>\$11,660.00</td><td>\$5,820.00</td></tr><tr><td>Wages.....</td><td></td><td>8,500.00</td><td>6,360.12</td></tr><tr><td><b>Other objects of expenditure:</b></td><td></td><td></td><td></td></tr><tr><td>Traveling expenses.....</td><td></td><td>500.00</td><td>686.43</td></tr><tr><td>Equipment and material.....</td><td></td><td>2,900.00</td><td>7,256.31</td></tr><tr><td>Miscellaneous items.....</td><td></td><td>8,190.00</td><td>7,903.38</td></tr><tr><td>Construction work.....</td><td></td><td>18,250.00</td><td></td></tr><tr><td><b>Total.....</b></td><td></td><td><b>40,000.00</b></td><td><b>28,026.24</b></td></tr></table> <p><sup>1</sup> This construction will consist of the following buildings: 1 frame dairy barn, containing 44,148 cubic feet, at 12.9 cents per foot..... \$5,700.00<br/>1 frame milk house, containing 3,248 cubic feet, at 17 cents per cubic foot... 550.00<br/>1 water supply system..... 2,000.00</p> | Appropriation for 1917.....                                       | \$40,000  | Estimate for 1917..... | \$87,500 | Appropriation for 1918..... | 40,000 | Estimate for 1918..... | 40,000 | Appropriation for 1919..... | 40,000 | Estimate for 1919..... | 40,000 | Appropriation for 1920..... | 40,000 | Estimate for 1920..... | 40,000 |  |  | Estimate for 1921..... | 40,000 | Employees. | Rate. | Estimated,<br>1921. | Expended,<br>1919. | <b>Salaries:</b> |  | <i>Number.</i> | <i>Number.</i> | Dairy husbandman.....per annum.. | \$2,000.00 | 1 |  | Assistant dairy husbandmen.....do... | 1,620.00 | 3 | 1 | Senior dairy herdsman.....do..... | 1,440.00 |  | 1 | Assistant animal husbandmen.....do... | 1,600.00 | 3 |  | Scientific assistant in husbandry.....do.. | 1,380.00 |  | 1 | Assistant animal husbandman.....do..... | 1,380.00 |  | 1 | <b>Wages:</b> |  |  |  | Laborers.....do..... | 1,140.00 | 1 |  | Laborers.....do..... | 1,020.00 |  | 1 | Laborers.....do..... | 1,000.00 | 5 | 1 | Miscellaneous temporary labor— |  |  |  | \$900 to \$720.....do..... |  |  | 4 | \$85 to \$30.....per month.. |  | 5 | 4 | \$6 to \$2.50.....per diem.. |  |  | 2 |  |  | 18 | 16 | Salaries..... |  | \$11,660.00 | \$5,820.00 | Wages..... |  | 8,500.00 | 6,360.12 | <b>Other objects of expenditure:</b> |  |  |  | Traveling expenses..... |  | 500.00 | 686.43 | Equipment and material..... |  | 2,900.00 | 7,256.31 | Miscellaneous items..... |  | 8,190.00 | 7,903.38 | Construction work..... |  | 18,250.00 |  | <b>Total.....</b> |  | <b>40,000.00</b> | <b>28,026.24</b> | \$40,000.00 | \$40,000.00 |
| Appropriation for 1917.....   | \$40,000  | Estimate for 1917.....  | \$87,500               |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Appropriation for 1918.....   | 40,000  | Estimate for 1918.....  | 40,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Appropriation for 1919.....   | 40,000  | Estimate for 1919.....  | 40,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Appropriation for 1920.....   | 40,000  | Estimate for 1920.....  | 40,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
|   |   | Estimate for 1921.....  | 40,000                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Employees.  | Rate.   | Estimated,<br>1921.   | Expended,<br>1919.     |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| <b>Salaries:</b>  |   | <i>Number.</i>  | <i>Number.</i>         |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Dairy husbandman.....per annum..  | \$2,000.00  | 1   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Assistant dairy husbandmen.....do...  | 1,620.00  | 3   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Senior dairy herdsman.....do.....   | 1,440.00  |   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Assistant animal husbandmen.....do...   | 1,600.00  | 3   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Scientific assistant in husbandry.....do..  | 1,380.00  |   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Assistant animal husbandman.....do.....   | 1,380.00  |   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| <b>Wages:</b>   |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Laborers.....do.....  | 1,140.00  | 1   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Laborers.....do.....  | 1,020.00  |   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Laborers.....do.....  | 1,000.00  | 5   | 1                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Miscellaneous temporary labor—  |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| \$900 to \$720.....do.....  |   |   | 4                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| \$85 to \$30.....per month..  |   | 5   | 4                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| \$6 to \$2.50.....per diem..  |   |   | 2                      |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
|   |   | 18  | 16                     |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Salaries.....   |   | \$11,660.00   | \$5,820.00             |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Wages.....  |   | 8,500.00  | 6,360.12               |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| <b>Other objects of expenditure:</b>  |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Traveling expenses.....   |   | 500.00  | 686.43                 |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Equipment and material.....   |   | 2,900.00  | 7,256.31               |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Miscellaneous items.....  |   | 8,190.00  | 7,903.38               |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| Construction work.....  |   | 18,250.00   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| <b>Total.....</b>   |   | <b>40,000.00</b>  | <b>28,026.24</b>       |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |
| <p>(6) That not to exceed <b>[\$75,000]</b> \$95,000 of the lump-sum appropriations herein made for the Department of Agriculture shall be available for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles necessary in the conduct of the field work of the Department of Agriculture outside the District of Columbia: <i>Provided</i>, That not to exceed <b>[\$15,000]</b> \$20,000 of this amount shall be expended for the purchase of such vehicles, and that such vehicles shall be used only for official service outside the District of Columbia, but this shall not prevent the continued use for official service of motor trucks in the District of Columbia: <i>Provided further</i>, That the Secretary of Agriculture shall, on the first day of each regular session of Congress, make a report to Congress showing the amount expended under the provisions of this paragraph during the preceding fiscal year (<i>act July 24, 1919, vol. 41, pp. 268, 269, sec. 1</i>).</p> <p>NOTE.—It is proposed to increase by \$20,000 the amount that may be expended from lump-sum appropriations of the department for the purchase, maintenance, repair, and operation of passenger-carrying vehicles required in conducting its field work, making the limitation \$95,000 instead of \$75,000. Of this \$95,000 maximum the amount that may be used for purchase only has been raised from \$15,000 to \$20,000. The increases recommended are based on a conservative estimate of the minimum amount that will be required for the purposes indicated, in view of the increased cost of labor and materials and the higher prices for new vehicles.</p>  |   |   |                        |          |                             |        |                        |        |                             |        |                        |        |                             |        |                        |        |  |  |                        |        |            |       |                     |                    |                  |  |                |                |                                  |            |   |  |                                      |          |   |   |                                   |          |  |   |                                       |          |   |  |  |          |  |   |   |          |  |   |               |  |  |  |                      |          |   |  |                      |          |  |   |                      |          |   |   |                                |  |  |  |                            |  |  |   |                              |  |   |   |                              |  |  |   |  |  |    |    |               |  |             |            |            |  |          |          |                                      |  |  |  |                         |  |        |        |                             |  |          |          |                          |  |          |          |                        |  |           |  |                   |  |                  |                  |             |             |





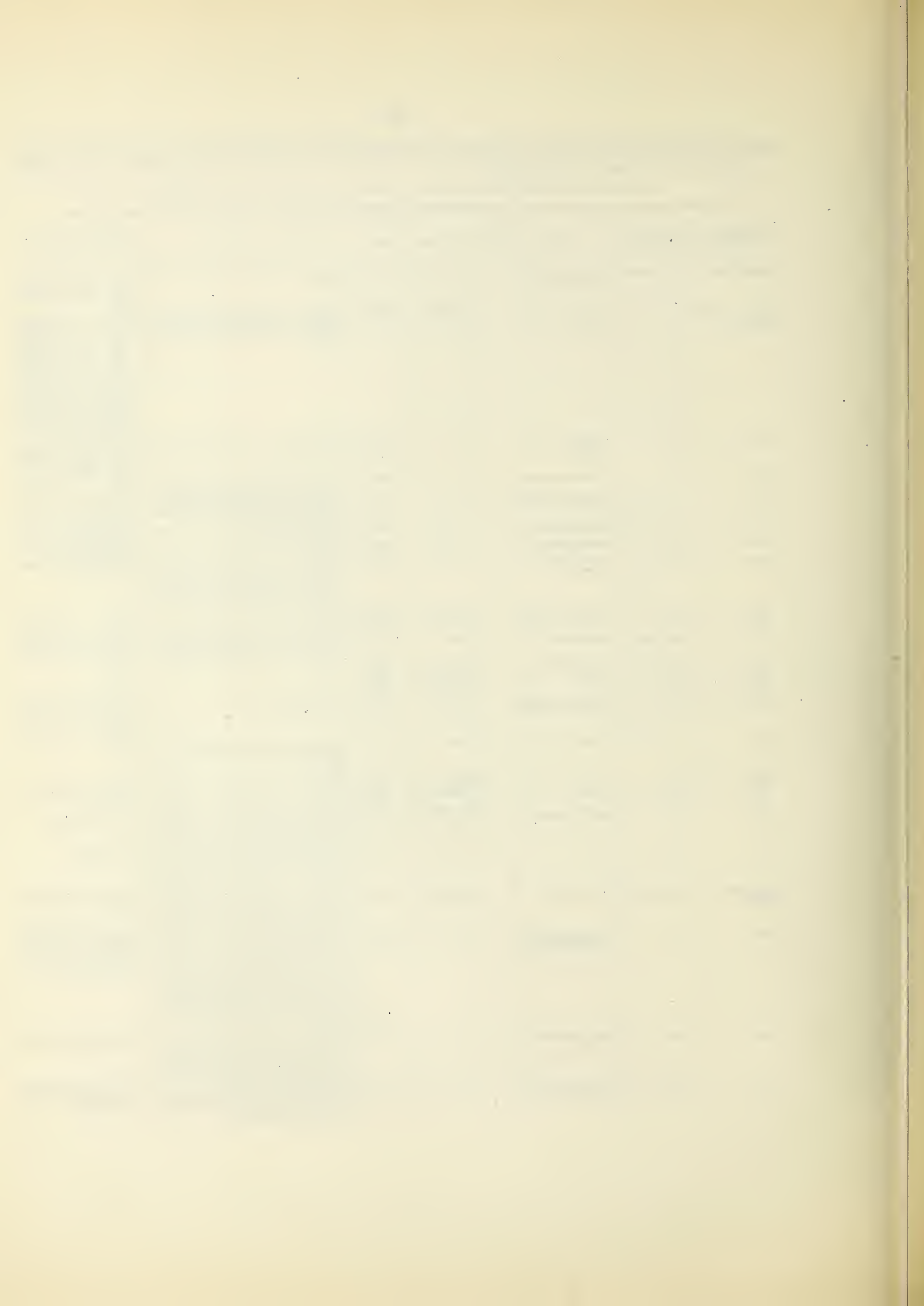
*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508).*

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT.

[The amount required for the maintenance, repair, and operation of vehicles to be purchased during the fiscal year ending June 30, 1921, is estimated for below.]

| Bureau, division, or office. | Horse-drawn or motor-propelled. | Appropriation.                          | Number. | Description.      | Amount.   | Public purpose for which intended.  | Officials and employees by whom used.  |
|------------------------------|---------------------------------|---|---------|-------------------|-----------|---|--|
| Weather Bureau....           | Motor-propelled.                | General expenses, Weather Bureau.       | 1       | Automobile...     | \$200.00  | Patrolling and repairing Government telegraph lines.  | Official in charge of Weather Bureau office, Port Angeles, Wash., and assistants.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Motor cycle...    | 60.00     | do.....   | Do.  |
| Bureau of Animal Industry.   | do.....                         | Eradicating hog cholera.                | 27      | Automobile...     | 17,000.00 | Transporting veterinarians from farm to farm, investigating outbreaks of hog cholera, and demonstrating methods for its eradication and control.  | Veterinary inspectors at Atlanta, Ga. (3 machines); Columbus, Ohio; College Park, Md.; Des Moines, Iowa (4 machines); Frankfort, Ky.; Indianapolis, Ind. (4 machines); Jefferson City, Mo. (2 machines); Lansing, Mich.; Lincoln, Nebr. (3 machines); Springfield, Ill. (2 machines); Oklahoma, Okla. (2 machines); Topeka, Kans.; Twin Falls, Idaho; and Troy, Ala. |
| Do.....                      | do.....                         | Inspection and quarantine.              | 3       | do.....           | 1,900.00  | Supervision of the work of eradicating scabies in sheep and cattle.   | Veterinary inspectors in the Denver, Colo., Salt Lake City, Utah, and Helena, Mont., districts.  |
| Do.....                      | do.....                         | Hog cholera research.                   | 1       | do.....           | 625.00    | Investigating outbreaks of hog cholera and transporting employees between the town of Ames, Iowa, and the Iowa experiment station.  | Dr. W. B. Niles and assistants.  |
| Do.....                      | do.....                         | Eradicating cattle ticks                | 2       | do.....           | 1,200.00  | Traveling from farm to farm inspecting cattle for ticks, and demonstrating methods for their eradication and control.   | Veterinary inspectors at Birmingham, Ala., and Houston, Tex.   |
| Do.....                      | do.....                         | Military horse breeding                 | 1       | do.....           | 400.00    | Inspecting horse-breeding stations in the vicinity of Front Royal, Va.  | Animal husbandman at Front Royal, Va.  |
| Do.....                      | do.....                         | Meat inspection                         | 2       | do.....           | 1,200.00  | Inspecting meats at establishments in the city of Chicago.  | Inspector in charge at Chicago and assistant.  |
| Do.....                      | do.....                         | Poultry feeding and breeding.           | 1       | do.....           | 300.00    | Transporting foreman of the Government ostrich farm (near Glendale, Ariz.), between the farm and the town of Glendale, a distance of 5 miles, to arrange for the securing of supplies, and for transporting small supplies needed at the farm from time to time.  | Foreman of the Government ostrich farm.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Motor cycle...    | 50.00     | do.....   | Do.  |
| Do.....                      | do.....                         | Eradicating cattleticks                 | 1       | do.....           | 85.00     | Inspecting stock yards and stock loading and unloading pens not otherwise accessible.   | Inspector at Jacksonville, Fla.  |
| Do.....                      | Horse-drawn                     | Dairy industry.....                     | 1       | Buggy.....        | 25.00     | Travel between the Government farm (near Beltsville, Md.), and the town of Beltsville to meet trains and obtain mail and supplies.  | Superintendent of the Beltsville farm and farm employees.  |
| Do.....                      | do.....                         | Animal husbandry....                    | 1       | Omnibus.....      | 40.00     | do.....   | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Buggy.....        | 20.00     | do.....   | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Two-seated brake. | 20.00     | do.....   | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Buggy.....        | 75.00     | Exercising remount stallion   | Do.  |
| Do.....                      | do.....                         | Military horse breeding                 | 2       | do.....           | 80.00     | Exercising stallions  | Superintendent of the Morgan horse farm, Middlebury, Vt., and farm employees.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Surrey.....       | 30.00     | Exercising stallions, and travel between the Government farm (near Middlebury, Vt.), and the town of Middlebury to obtain mail and supplies.  | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Sleigh.....       | 15.00     | do.....   | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Cutter.....       | 15.00     | do.....   | Do.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Buggy.....        | 25.00     | Inspecting horse-breeding stations in the vicinity of Lexington, Ky., not accessible by railroad.   | Animal husbandman at Lexington, Ky.  |
| Do.....                      | do.....                         | do.....                                 | 1       | Exercising cart   | 25.00     | Exercising remount stallions  | Do.  |
| Do.....                      | do.....                         | Diseases of animals....                 | 1       | Buggy.....        | 25.00     | Inspecting Government sheep farm (near Vienna, Va.), and transporting employees between the farm and the towns of Vienna and Oakton to obtain necessary supplies.   | Various farm employees.  |
| Do.....                      | do.....                         | do.....                                 | 1       | do.....           | 25.00     | Transporting employees between the Government experiment station, Bethesda, Md., and the District of Columbia line, and carrying small supplies needed at the station from time to time.  | Station employees.   |
| Bureau of Plant Industry.    | Motor-propelled.                | Crop physiology.....                    | 1       | Automobile...     | 300.00    | Supervision of date experiments being conducted in the Coachella and Imperial Valleys of California, and in connection with the operation of Government date gardens at Indio, Mecca, and Palm Springs, Calif.  | Foreman of the Indio, Calif., date garden, and assistants.   |
| Do.....                      | do.....                         | Demonstrations on reclamation projects. | 4       | do.....           | 2,400.00  | Conducting demonstration work on Government reclamation projects. This work is performed chiefly on individual farms, and its prosecution necessitates frequent travel to various parts of the projects. The projects have no adequate railroad facilities and the use of motor vehicles is essential in order to assure the most effective results. This is particularly true in instances where demonstration men are called upon to assist farmers in connection with animal diseases where prompt action is imperative. | Agriculturists in charge of demonstrations on the North Platte, Shoshone, Umatilla, and Yuma reclamation projects.   |
| Do.....                      | do.....                         | Crop acclimatization..                  | 1       | do.....           | 450.00    | Supervising experimental plantings of cotton, corn, and tropical plants in the vicinity of the Government experiment station at Sacaton, Ariz. This work is being performed in close cooperation with the Bureau of Indian Affairs of the Department of the Interior.   | Employees of the Sacaton, Ariz., field station.  |
| Do.....                      | do.....                         | Dry-land agriculture..                  | 1       | do.....           | 100.00    | Official travel between the field station at Mandan, N. Dak., and adjacent points in connection with the cooperative shelterbelt development work being conducted.  | Superintendent of the Mandan, N. Dak., field station and assistants.   |





Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

| Bureau, division, or office. | Horse-drawn or motor-propelled. | Appropriation.                       | Number. | Description.                 | Amount.  | Public purpose for which intended.  | Officials and employees by whom used.  |
|------------------------------|---------------------------------|--------------------------------------|---------|------------------------------|----------|---|--|
| Bureau of Plant Industry.    | Motor-propelled.                | Arlington farm.....                  | 1       | Motor cycle...               | \$100.00 | Transporting supervisors to experimental work being conducted and patrol duty on the Arlington farm.  | Supervisors and watchmen.  |
| Do.....                      | do.....                         | Sugar plants.....                    | 1       | Motor cycle (with side car). | 175.00   | Travel to sugar-beet areas in California for the purpose of inspecting diseased sugar-beet fields and gathering diseased material for laboratory study.   | Pathologist in charge.   |
| Do.....                      | do.....                         | Forest pathology.....                | 1       | Motor cycle...               | 60.00    | Investigating forest-tree diseases in the vicinity of Madison, Wis.   | C. J. Humphrey.  |
| Do.....                      | do.....                         | do.....                              | 1       | do.....                      | 60.00    | Investigating forest-tree diseases in the vicinity of Albuquerque, N. Mex.  | W. H. Long.  |
| Do.....                      | Horse-drawn.                    | Foreign seed and plant introduction. | 1       | Buggy.....                   | 25.00    | Official travel between the plant-introduction field station near Chico, Calif., and the town of Chico, to arrange for the securing of supplies and equipment needed at the station from time to time in connection with investigational work being conducted.  | Superintendent, plant-introduction field station, Chico, Calif.  |
| Do.....                      | do.....                         | do.....                              | 1       | do.....                      | 25.00    | Official travel between the plant-introduction field station near Rockville, Md., and the town of Rockville, to arrange for the securing of supplies and equipment needed at the station from time to time in connection with investigational work being conducted.   | Superintendent, plant-introduction field station, Rockville, Md.   |
| Do.....                      | do.....                         | Cereal investigations..              | 1       | do.....                      | 175.00   | Transporting employees between the Crowley, La., field station, and the town of Crowley, and conducting investigational work in the surrounding country.  | Superintendent in charge of rice experiments at Crowley, La., and assistants.  |
| Do.....                      | do.....                         | Western irrigation agriculture.      | 9       | do.....                      | 130.00   | Conducting investigational and inspection work on irrigation projects, and transporting employees between Government experiment farms and adjacent towns to arrange for the purchase of supplies and equipment. These experiment farms are located at distances varying from 1 to 7 miles from railroads, and conveyances are absolutely essential to the proper and expeditious conduct of the work.   | Superintendents and employees of the San Antonio, Yuma, Bellefourche, Newlands, and Huntley experiment farms.  |
| Do.....                      | do.....                         | Dry land agriculture..               | 6       | do.....                      | 90.00    | Investigational and inspection work at farms in the vicinity of Government field stations, and transporting employees between the stations and adjacent towns for the purchase of necessary supplies and equipment.   | Superintendents and assistants of the Mandan, N. Dak., Scottsbluff, Nebr., Woodward, Okla., Ardmore, S. Dak., Lawton, Okla., and Akron, Colo., field stations. |
| Do.....                      | do.....                         | do.....                              | 1       | Surrey.....                  | 15.00    | Official travel between the field station at Mandan, N. Dak., and adjacent points in connection with the cooperative shelterbelt development work being conducted.  | Superintendent of the Mandan, N. Dak., field station and assistants.   |
| Do.....                      | do.....                         | Arlington farm.....                  | 2       | Runabout.....                | 300.00   | Superintending the various field operations being conducted on the Arlington farm. The farm contains approximately 400 acres and vehicles are absolutely essential in order properly to supervise the work being performed.   | E. C. Butterfield and assistants.  |
| Do.....                      | do.....                         | do.....                              | 1       | Top buggy....                | 30.00    | Superintending the various field operations being conducted on the Arlington farm. The farm contains approximately 400 acres and vehicles are absolutely essential in order properly to supervise the work being performed. The use of this vehicle, however, is confined to inclement weather.   | Do.  |
| Do.....                      | do.....                         | Western irrigation agriculture.      | 1       | Road cart.....               | 5.00     | Official travel between the Newlands experiment farm and adjacent towns for the purchase of supplies and equipment.   | Superintendent and employees of the Newlands experiment farm.  |
| Forest Service.....          | Motor propelled.                | General expenses, Forest Service.    | 6       | Automobile...                | 3,176.00 | Forest-fire protection and inspection, improvement, land classification and entry survey work on national forests in California; forest-fire protection and administration on the Angeles National Forest; and forest-fire protection, administration, inspection, and research work on the Jornada Range reserve.  | Forest officers engaged in land classification, forest-fire protection, improvement, and grazing research work.  |
| Do.....                      | do.....                         | do.....                              | 8       | Motorcycle....               | 886.00   | Forest-fire protection on the Pend Oreille, Shoshone, Colorado, Datil, Lincoln, Cache, Wasatch, and Oregon National Forests.  | Forest rangers, guards, and patrolmen.   |
| Do.....                      | do.....                         | do.....                              | 31      | Railroad speeder             | 2,169.00 | Forest-fire protection on the Cabinet, Lolo, Kootenai, Jefferson, Flathead, Deerlodge, Coeur d'Alene, Pend Oreille, Medecine Bow, Tusayan, Targhee, Weiser, Shasta, Sierra, Snoqualmie, Cascade, Colville, Chugach, Siskiyou, Olympic, Arkansas, Pisgah, and Shenandoah National Forests.   | Do.  |
| Bureau of Chemistry.         | do.....                         | Citrus by-products....               | 1       | Automobile...                | 480.00   | Investigational work at citrus groves in the State of California. For the most part these groves are inaccessible by railroad, and in many instances where railroad facilities are actually available train schedules are such that not infrequently an entire day is consumed in performing a few hours' work. The economy effected through the use of a Government-owned vehicle is therefore obvious. The machine is also used to considerable advantage in the collection of samples and the transportation of apparatus used in the citrus work. | E. M. Chace and employees of the citrus by-products laboratory, Los Angeles, Calif.  |
| Do.....                      | do.....                         | Color investigations..               | 1       | Motorcycle....               | 240.00   | Official travel between the color laboratory at the Arlington farm and the headquarters of the bureau at Washington for the purpose of holding conferences with bureau officials in regard to work being conducted, and to obtain supplies and apparatus urgently needed from time to time.   | Employees of the color laboratory, Arlington farm, Va.   |





Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

| Bureau, division, or office. | Horse-drawn or motor-propelled. | Appropriation.                               | Number. | Description.   | Amount.  | Public purpose for which intended.  | Officials and employees by whom used.  |
|------------------------------|---------------------------------|--|---------|----------------|----------|---|--|
| Bureau of Entomology.        | Motor-propelled.                | Deciduous fruit insects.                     | 1       | Automobile...  | \$350.00 | Pecan-insect investigations in the vicinity of Monticello, Fla.   | J. B. Gill.  |
| Do.....                      | do.....                         | Cereal and forage insects.                   | 1       | do.....        | 400.00   | Collecting data and performing investigational work in the vicinity of Wichita, Kans.   | J. R. Horton.  |
| Do.....                      | do.....                         | Southern field crop insects.                 | 1       | do.....        | 450.00   | Conducting Southern field crop insect investigations, and inspecting experimental work in the vicinity of Clarksville, Tenn.  | A. C. Morgan.  |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 500.00   | Inspection work at plantations near Tallulah, La., where experiments are being conducted in the control and eradication of Southern field crop insects.   | B. R. Coad.  |
| Do.....                      | do.....                         | Miscellaneous insects.                       | 1       | do.....        | 400.00   | Investigational work in the vicinity of Dallas, Tex., in connection with insects affecting the health of man and domestic animals.  | F. C. Bishopp.   |
| Do.....                      | do.....                         | Preventing spread of moths.                  | 7       | do.....        | 4,600.00 | Supervising and directing laboratory, scouting, quarantine, and silvicultural work, colonizing parasites, and making immediate inspections of perishable nursery stock at nurseries located in the infested areas upon telegraphic and telephonic requests.   | Principal assistants in charge of the investigations, scientific assistants, foremen, and scouts acting under their supervision and direction.     |
| Do.....                      | do.....                         | Cereal and forage insects.                   | 1       | do.....        | 400.00   | Cereal and forage insect investigations in the vicinity of West Lafayette, Ind.   | W. H. Larrimer.  |
| Do.....                      | do.....                         | Deciduous fruit insects.                     | 1       | do.....        | 400.00   | Conducting investigations of the Japanese beetle in the vicinity of Riverton, N. J.   | J. J. Davis.   |
| Do.....                      | do.....                         | Tropical and subtropical fruit insects.      | 1       | do.....        | 400.00   | Tropical and subtropical fruit-insect investigations at Miami, Fla.   | G. F. Mozzette.  |
| Do.....                      | do.....                         | Truck-crop insects.                          | 1       | do.....        | 400.00   | For use at Macclenny, Fla., in the sweet-potato weevil campaign being conducted in that State.  | B. L. Boyden.  |
| Do.....                      | do.....                         | Miscellaneous insects.                       | 1       | Motorcycle.... | 50.00    | Investigational work in the vicinity of Dallas, Tex., in connection with insects affecting the health of man and domestic animals.  | Oscar Pool.  |
| Do.....                      | do.....                         | Truck-crop insects.                          | 1       | do.....        | 50.00    | Conducting investigations in the vicinity of Riverside, Calif., in connection with sugar-beet insects, with special reference to the curly-top leafhopper.  | C. F. Stahl.   |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 50.00    | Inspecting experimental and demonstration fields near Kingsville, Tex., where work looking to the control of the sweet-potato weevil is being conducted.  | F. A. Johnston.  |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 150.00   | Inspecting experimental fields in the vicinity of Alhambra, Calif., which are undergoing treatment against potato and other truck-crop insects.   | R. E. Campbell.  |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 100.00   | Conducting truck-crop insect investigations in the Mississippi Valley, near Muscatine, Iowa, and for transferring men and equipment between fields where experiments are being conducted.   | F. M. Wadley.  |
| Do.....                      | do.....                         | Deciduous-fruit insects.                     | 1       | do.....        | 100.00   | Apple-insect investigations at Medford, Oreg....  | M. A. Yothers.   |
| Do.....                      | do.....                         | Cereal and forage insects.                   | 1       | do.....        | 50.00    | Field-inspection work in the vicinity of Lafayette, Ind., in connection with the white grub and Hessian fly investigations being conducted.   | C. F. Turner.  |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 50.00    | Conducting investigations of insects affecting clover seed, alfalfa, etc., in the vicinity of Forest Grove, Oreg., where railroad facilities are unusually poor.  | C. W. Creel.   |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 100.00   | Collecting data, carrying small supplies, and performing inspection work at points in the vicinity of Knoxville, Tenn., inaccessible by other means of transportation.  | G. G. Ainslie.   |
| Do.....                      | do.....                         | do.....                                      | 2       | do.....        | 200.00   | Conducting investigational and inspection work at ranches located near Tempe, Ariz.   | V. L. Wildermuth and D. J. Caffrey.  |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 75.00    | Alfalfa-insect investigations in the vicinity of Berkeley, Calif.   | T. D. Urbahns.   |
| Do.....                      | do.....                         | Mediterranean fruit fly.                     | 1       | do.....        | 175.00   | Investigations of the Mediterranean fruit fly in Honolulu, Hawaii.  | H. F. Willard.   |
| Do.....                      | do.....                         | Tropical and subtropical fruit insects.      | 1       | do.....        | 100.00   | Collecting specimens and inspecting experimental work being conducted in the vicinity of Miami, Fla., in the control and eradication of tropical and subtropical fruit insects.   | G. F. Mozzette.  |
| Do.....                      | do.....                         | Preventing spread of moths.                  | 2       | do.....        | 350.00   | Collecting insects, parasitized material, and food plants for use in experimental work; determining spread of parasites and natural enemies in the field; scouting new territory and directing operations of field parties engaged in scouting and extermination work.  | Principal assistants in charge of the investigations, and scientific assistants, foremen, and scouts acting under their supervision and direction. |
| Do.....                      | do.....                         | Deciduous-fruit insects.                     | 1       | do.....        | 50.00    | Apple-insect investigations at Yakima, Wash....   | E. J. Ne Comer.  |
| Do.....                      | do.....                         | Truck-crop insects.                          | 1       | do.....        | 50.00    | Truck-crop insect investigations in the vicinity of Greeley, Colo.  | E. A. Mallory.   |
| Bureau of Biological Survey. | do.....                         | Maintenance of mammal and bird reservations. | 1       | do.....        | 300.00   | Patrolling Malheur Lake bird reservation, Oregon.   | Warden in charge of reservation.   |
| States Relations Service.    | do.....                         | Agricultural experiment station, Porto Rico. | 2       | Automobile...  | 750.00   | Transportation of station specialists having supervision of cooperative work being conducted in Porto Rico.   | Agronomist in charge of Porto Rico experiment station and assistants.  |
| Bureau of Public Roads.      | do.....                         | Investigating road building and maintenance. | 4       | do.....        | 2,400.00 | Supervision and inspection of work in progress demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. These machines are used only where the length of a construction project is so great as to render it practically impossible for an engineer to inspect the work expeditiously by any other means. | Highway engineers supervising construction work.   |
| Do.....                      | do.....                         | do.....                                      | 1       | do.....        | 600.00   | Supervision of maintenance work in progress demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. The length of maintenance projects renders it impossible to inspect the work expeditiously by any other means.  | Highway engineers supervising maintenance work.  |





Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

| Bureau, division, or office. | Horse-drawn or motor-propelled. | Appropriation.  | Number. | Description.  | Amount.   | Public purpose for which intended.  | Officials and employees by whom used.   |
|------------------------------|---------------------------------|---|---------|---------------|-----------|---|---|
| Bureau of Public Roads.      | Motor-propelled.                | Farm irrigation.....                                  | 1       | Automobile... | \$600.00  | Supervision of irrigation projects. This machine is used only where it is impracticable for engineers to inspect the work expeditiously by other means.   | Irrigation engineers supervising irrigation projects.   |
| Do.....                      | do.....                         | Road material.....                                    | 1       | do.....       | 600.00    | Supervision and inspection of experimental roads being constructed in the vicinity of Washington, and conducting field tests in connection with concrete and soil pressure investigations.                                  | Chemists and testing engineers supervising experimental work.   |
| Do.....                      | do.....                         | do.....   | 1       | do.....       | 600.00    | Supervision and inspection of construction work, and for transporting employees to the laboratory building on the Arlington farm.   | Highway engineers supervising construction work and employees assigned to laboratory at the Arlington farm. |
| Bureau of Markets.           | do.....                         | Collecting and distributing market information.       | 4       | do.....       | 2,400.00  | Official travel between railroad yards and markets in Philadelphia, Chicago, Detroit, and San Francisco to secure reports of arrivals, market quotations, etc.  | Local representatives of the Bureau of Markets in Philadelphia, Chicago, Detroit, and San Francisco.        |
| Do.....                      | do.....                         | Market reports on live stock and meats.               | 4       | do.....       | 2,400.00  | Collecting authoritative information as to the number of cattle and sheep in the principal feeding and grazing districts in the vicinity of Omaha, Denver, Kansas City, and Lancaster.                                      | Local representatives of the Bureau of Markets in Omaha, Denver, Kansas City and Laueaster.                 |
| Do.....                      | do.....                         | Market inspection of perishable foods.                | 1       | do.....       | 600.00    | Transporting inspectors and their equipment, samples, etc., between inspection points in Cleveland.   | Food products inspectors.   |
| Do.....                      | do.....                         | Enforcement of the United States Grain Standards Act. | 1       | do.....       | 600.00    | Official travel of grain samplers engaged in grain inspection work between railroad yards, elevators, warehouses, etc., in the city of Chicago, and for transporting grain samples to the Federal grain supervision office. | Federal grain supervisors and others engaged in Federal grain supervision work.                             |
| Federal Horticultural Board. | do.....                         | Suppressing spread of pink bollworm of cotton.        | 5       | do.....       | 3,000.00  | For use in the campaign against the pink bollworm of cotton in Texas. Two of the machines are employed in and around Houston, and three in the quarantined zone surrounding the Trinity Bay district.                       | Dr. W. D. Hunter and assistants.  |
| Total.....                   |                                 |   |         |               | 59,681.00 |   |   |

TO BE PURCHASED DURING THE FISCAL YEAR 1921.

| Bureau, division, or office. | Horse-drawn or motor-propelled. | Appropriation.             | For purchase. |               |             |                           |              |                        | Net cost. | For maintenance, repair, and operation. | Public purpose for which intended.  | Officials and employees by whom used.  |
|------------------------------|---------------------------------|----------------------------|---------------|---------------|-------------|---------------------------|--------------|------------------------|-----------|---|---|--|
|                              |                                 |                            | New vehicles. |               |             | Vehicles to be exchanged. |              |                        |           |   |   |  |
|                              |                                 |                            | Number.       | Description.  | Gross cost. | Number.                   | Description. | Allowance (estimated). |           |   |   |  |
| Bureau of Animal Industry.   | Motor-propelled.                | Inspection and quarantine. | 2             | Automobile... | \$1,200     |                           |              |                        | \$1,200   | \$1,200                                 | Transporting inspectors to farms and ranches in the eradication of scabies of sheep and cattle.   | Veterinary inspectors at Salt Lake City, Utah, and Helena, Mont.                     |
| Do.....                      | do.....                         | do.....                    | 1             | do.....       | 600         | 1                         | Automobile.. | \$100                  | 500       | 600                                     | Inspecting cattle imported along the Canadian border.   | Veterinary inspectors at Pembina, N. Dak.  |
| Do.....                      | do.....                         | Animal husbandry.          | 1             | do.....       | 600         |                           |              |                        | 600       | 600                                     | Official travel between the ranch of the United States sheep experiment station at Dubois, Idaho, and the railway station, a distance of 7 miles, and other points in the vicinity.   | Superintendent of station.   |
| Do.....                      | do.....                         | Eradicating hog cholera.   | 3             | do.....       | 1,800       |                           |              |                        | 1,800     | 1,800                                   | Transporting veterinarians from farm to farm investigating outbreaks of hog cholera, and demonstrating methods for its control and eradication.   | Veterinary inspectors at Des Moines, Iowa, Twin Falls, Idaho, and Indianapolis, Ind. |
| Bureau of Plant Industry.    | do.....                         | Blister-rust control.      | 1             | do.....       | 600         |                           |              |                        | 600       | 500                                     | Supervision of blister-rust control work in Massachusetts, Maine, New Hampshire, Vermont, and Rhode Island. Blister-rust control work in New England is carried on in country districts and forest areas. Effective control depends on the removal of wild currants and gooseberries from pine areas, and frequent inspections are necessary to assure the complete eradication of all such bushes. An automobile is necessary in order that inspectors may reach control areas frequently and give the work the close supervision essential to efficiency. | E. C. Fuller and assistant inspectors.   |



Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.

## TO BE PURCHASED DURING THE FISCAL YEAR 1921—Continued.

| Bureau, division,<br>or office.   | Horse-drawn or<br>motor-<br>propelled. | Appropriation.   | For purchase. |   |                |                           |                      |                                     | Net<br>cost. | For<br>main-<br>tenance,<br>re-<br>pair,<br>and<br>opera-<br>tion. | Public purpose for which<br>intended.   | Officials and em-<br>ployees by whom<br>used.   |
|-----------------------------------|--|--|---------------|---|----------------|---------------------------|----------------------|-------------------------------------|--------------|--|---|---|
|                                   |  |  | New vehicles. |   |                | Vehicles to be exchanged. |                      |                                     |              |  |   |   |
|                                   |  |  | Num-<br>ber.  | Description.                              | Gross<br>cost. | Num-<br>ber.              | Description.         | Allow-<br>ance<br>(esti-<br>mated). |              |  |   |   |
| Bureau of Plant In-<br>dustry.    | Motor propelled                        | Demonstra-<br>tions on rec-<br>lamation<br>projects.           | 6             | Automobile...                             | \$3,600        | 6                         | Automobile...        | \$350                               | \$3,250      | \$3,000  | Conducting demonstra-<br>tion work on Govern-<br>ment reclamation pro-<br>jects. This work is done<br>chiefly on individual<br>farms, requiring fre-<br>quent visits to all parts<br>of the projects. The pro-<br>jects have no adequate<br>railroad facilities and a<br>large number of the<br>farms which it is neces-<br>sary to visit are remote<br>from railroads, many be-<br>ing as far as 15 to 20 miles<br>from the nearest rail-<br>road point. Facilities<br>for rapid transportation<br>must therefore be em-<br>ployed to make the work<br>efficient, particularly in<br>cases where demonstra-<br>tion men are called<br>upon to assist farmers<br>in connection with ani-<br>mal diseases where<br>prompt action is im-<br>perative. | Agriculturists in<br>charge of demon-<br>strations on the<br>Huntley, Yaki-<br>ma, Newlands,<br>Minidoka, Un-<br>compahgre, and<br>Belle Fourche<br>projects. |
| Forest Service.....               | .....do.....                           | General ex-<br>penses, For-<br>est Service.                    | 6             | Motorcycle....                            | 2,525          | 2                         | Motorcycle....       | 200                                 | 2,325        | 581  | Forest-fire patrol and gen-<br>eral administration on<br>the Cabinet, Missoula,<br>Kootenai, Beaverhead,<br>Datil, and Cascade Na-<br>tional Forests.   | Forest rangers and<br>patrolmen.  |
| Do.....                           | .....do.....                           | .....do.....   | 3             | Railroad<br>speeder.                      | 1,573          | 1                         | Railroad<br>speeder. | 85                                  | 1,488        | 264  | Fire patrol on the Supe-<br>rior, Chugach, and<br>Olympic National For-<br>ests.  | Do.   |
| Do.....                           | .....do.....                           | .....do.....   | 1             | Motor wheel<br>(for railroad<br>speeder). | 50             |                           |                      |                                     | 50           | 19   | Fire patrol on the Colville<br>National Forest.   | Do  |
| Bureau of Ento-<br>mology.        | .....do.....                           | Cerealand for-<br>age insects.                                 | 1             | Automobile...                             | 600            |                           |                      |                                     | 600          | 400  | Alfalfa-weevil investiga-<br>tions in Idaho, Wyo-<br>ming, Utah, and Colo-<br>rado.   | G. I. Reeves and<br>assistants, Salt<br>Lake City, Utah.  |
| Do.....                           | .....do.....                           | Deciduous<br>fruit insects.                                    | 1             | .....do.....                              | 600            |                           |                      |                                     | 600          | 400  | Investigations in the vi-<br>cinity of Sandusky,<br>Ohio, of the grape-berry<br>moth and other impor-<br>tant vineyard insects.   | G. A. Runner.   |
| Do.....                           | .....do.....                           | Preventing<br>spread of<br>moths.                              | 4             | .....do.....                              | 2,400          |                           |                      |                                     | 2,400        | 1,600  | Supervising field opera-<br>tions and experimental<br>work being conducted<br>in sections of New Eng-<br>land infested with the<br>gypsy and brown-tail<br>moths; transferring<br>crews of men from place<br>to place within the in-<br>fested areas, colonizing<br>parasites in the field,<br>and making collections<br>of material to determine<br>the percentage of para-<br>sitism in different local-<br>ities where experimental<br>work is under way.  | Principal assist-<br>ants in charge of<br>the investiga-<br>tions.  |
| Bureau of Markets.                | .....do.....                           | Market re-<br>ports on live<br>stock and<br>meats.             | 2             | .....do.....                              | 1,200          |                           |                      |                                     | 1,200        | 1,200  | Travel between wholesale<br>meat distributing cen-<br>ters in San Francisco<br>and Los Angeles, Calif.  | Representatives of<br>the Bureau of<br>Markets at San<br>Francisco and<br>Los Angeles,<br>Calif.  |
| Do.....                           | .....do.....                           | Market in-<br>spection of<br>perishable<br>foods.              | 2             | .....do.....                              | 1,200          |                           |                      |                                     | 1,200        | 1,200  | Transportation of inspec-<br>tors and equipment be-<br>tween inspection points<br>in Cincinnati and Chi-<br>cago.   | Food products in-<br>spectors.  |
| Federal Horticul-<br>tural Board. | .....do.....                           | Suppressing<br>spread of<br>pink boll-<br>worm of cot-<br>ton. | 3             | .....do.....                              | 1,800          |                           |                      |                                     | 1,800        | 1,800  | Pink bollworm eradica-<br>tion work in the State<br>of Texas.   | Dr. W. D. Hunter<br>and his assist-<br>ants.  |
| Total.....                        |  |  |               |   |                |                           |                      |                                     | 19,613       | 15,164   |   |   |





*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1921, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.*

## SUMMARY.

| Bureau, division, or office.     | Motor-propelled vehicles. |   |        | Horse-drawn vehicles. |   |        | Totals.             |   |  |
|----------------------------------|---------------------------|---|--------|-----------------------|---|--------|---------------------|---|--|
|                                  | For purchase.             | For maintenance, repair, and operation. | Total. | For purchase.         | For maintenance, repair, and operation. | Total. | Total for purchase. | Total for maintenance, repair, and operation. | Total for bureau, division, or office. |
| Weather Bureau.....              |                           | \$260                                   | \$260  |                       |   |        |                     | \$260   | \$260                                  |
| Bureau of Animal Industry.....   | \$4,100                   | 26,960                                  | 31,060 |                       | \$420                                   | \$420  | \$4,100             | 27,380  | 31,480                                 |
| Bureau of Plant Industry.....    | 3,850                     | 7,145                                   | 10,995 |                       | 795                                     | 795    | 3,850               | 7,940   | 11,790                                 |
| Forest Service.....              | 3,863                     | 7,095                                   | 10,958 |                       |   |        | 3,863               | 7,095   | 10,958                                 |
| Bureau of Chemistry.....         |                           | 720                                     | 720    |                       |   |        |                     | 720   | 720                                    |
| Bureau of Entomology.....        | 3,600                     | 12,400                                  | 16,000 |                       |   |        | 3,600               | 12,400  | 16,000                                 |
| Bureau of Biological Survey..... |                           | 300                                     | 300    |                       |   |        |                     | 300   | 300                                    |
| States Relations Service.....    |                           | 750                                     | 750    |                       |   |        |                     | 750   | 750                                    |
| Bureau of Public Roads.....      |                           | 4,800                                   | 4,800  |                       |   |        |                     | 4,800   | 4,800                                  |
| Bureau of Markets.....           | 2,400                     | 8,400                                   | 10,800 |                       |   |        | 2,400               | 8,400   | 10,800                                 |
| Federal Horticultural Board..... | 1,800                     | 4,800                                   | 6,600  |                       |   |        | 1,800               | 4,800   | 6,600                                  |
| Total.....                       | 19,613                    | 73,630                                  | 93,243 |                       | 1,215                                   | 1,215  | 19,613              | 74,845  | 94,458                                 |



Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

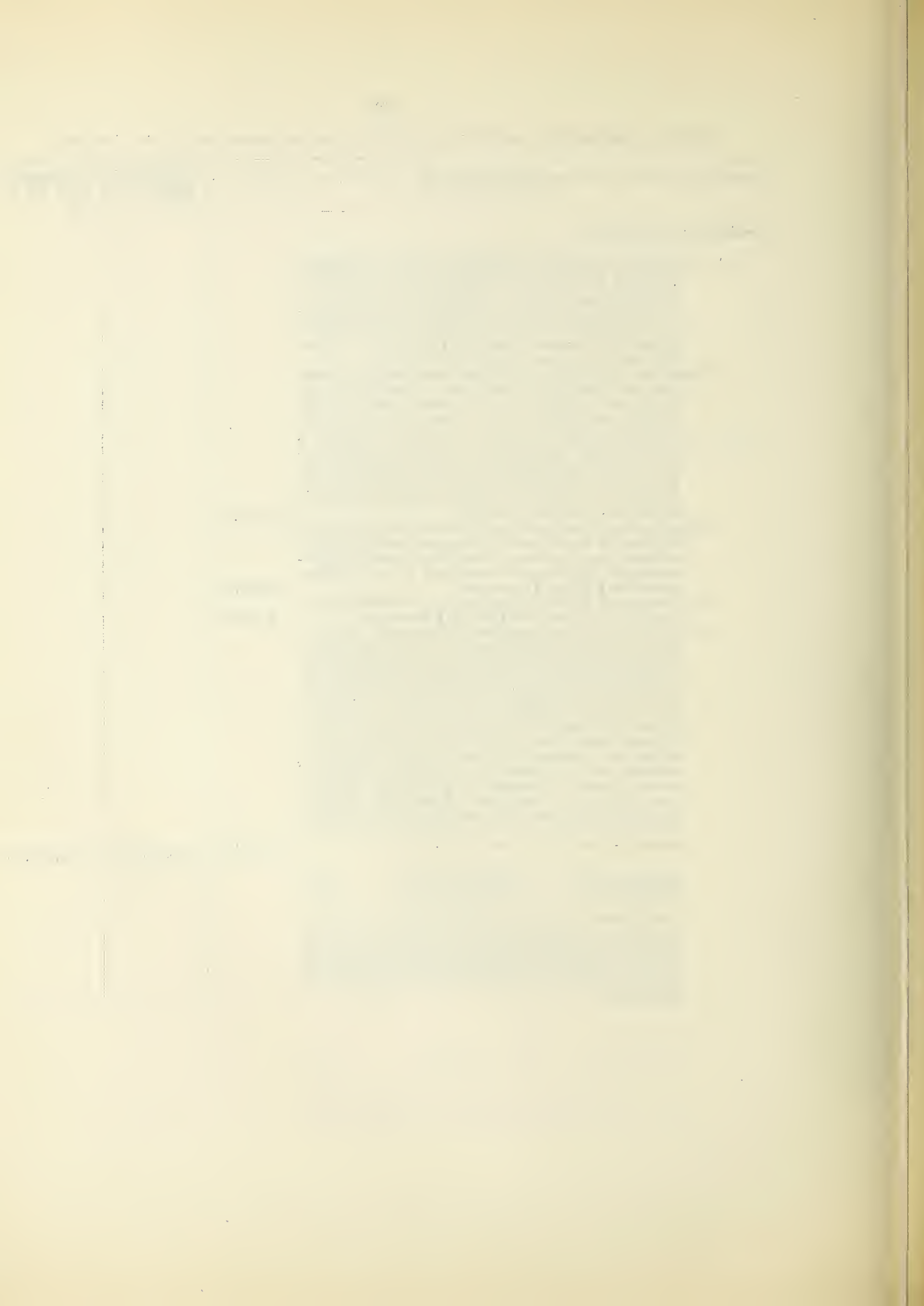
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <p>(7) <i>That hereafter the Secretary of Agriculture may exchange used parts, accessories, tires, or equipment of motor-propelled and horse-drawn vehicles in part payment for new parts, accessories, tires, or equipment of such vehicles authorized to be purchased by him, to be used for the same purposes as those proposed to be exchanged.</i></p> <p>NOTE.—The above legislation is recommended in order to provide authority for the exchange of parts of automobiles in part payment for similar new parts for their replacement, with a view to place the operation of automobiles by the department on an economical and businesslike basis. Tires, for example, often are sold upon a guaranteed mileage basis, the manufacturer agreeing, in case they prove defective and fail to make the guaranteed mileage on account of imperfection in material or workmanship, to replace them at a figure calculated to compensate for the lack of service rendered by them.</p>  |   |   |
| <p><i>Eradication of Foot-and-Mouth and Other Contagious Diseases of Animals—</i></p> <p>(8) In case of an emergency arising out of the existence of foot-and-mouth disease, rinderpest, contagious pleuropneumonia, or other contagious or infectious disease of animals which, in the opinion of the Secretary of Agriculture, threatens the live-stock industry of the country, he may expend in the city of Washington or elsewhere, out of any money in the Treasury not otherwise appropriated, the sum of \$1,000,000, which sum is hereby appropriated, or so much thereof as he determines to be necessary, in the arrest and eradication of any such disease, including the payment of claims growing out of past and future purchases and destruction, in cooperation with the States, of animals affected by or exposed to, or of materials contaminated by or exposed to, any such disease, wherever found and irrespective of ownership, under like or substantially similar circumstances, when such owner has complied with all lawful quarantine regulations: <i>Provided</i>, That the payment for animals hereafter purchased may be made on appraisement based on the meat, dairy, or breeding value, but in case of appraisement based on breeding value no appraisement of any animal shall exceed three times its meat or dairy value, and except in case of an extraordinary emergency, to be determined by the Secretary of Agriculture, the payment by the United States Government for any animal shall not exceed one-half of any such appraisements: <i>Provided further</i>, That so much of the appropriation of \$2,500,000 made by the agricultural appropriation act of Mar. 4, 1915, for the fiscal year ending June 30, 1916, for the arrest and eradication of foot-and-mouth disease, rinderpest, contagious pleuropneumonia, or other contagious or infectious disease of animals, as remains unexpended at the close of the fiscal year <b>[1919]</b> 1920, is hereby reappropriated and made available for expenditure during the fiscal year ending June 30, <b>[1920]</b> 1921, for the objects mentioned in said appropriation act, including necessary investigations to determine whether said diseases have been completely eradicated in districts where they previously existed (<i>acts Mar. 4, 1915, vol. 38, p. 1115, sec. 1; July 24, 1919, vol. 41, p. 269, sec. 1</i>)</p> |   |   |
| <p>Deficiency for 1915..... \$2,500,000<br/>Appropriation for 1916..... 2,500,000<br/>Appropriation for 1917..... 1,250,000<br/>Appropriation for 1918..... 1,000,000<br/>Appropriation for 1919..... 1,000,000<br/>Appropriation for 1920..... 1,000,000</p> <p>Estimate for 1917..... \$2,500,000<br/>Estimate for 1918..... 1,250,000<br/>Estimate for 1919..... 1,000,000<br/>Estimate for 1920..... 1,000,000<br/>Estimate for 1921..... 1,000,000</p>   | \$1, 000, 000. 00   | \$1, 000, 000. 00   |
| <p>NOTE.—There is no change in the amount of the above item, but the language has been amended so as to make available for expenditure during the fiscal year 1921 any unexpended balance of the \$2,500,000 provided for this purpose in the agricultural appropriation act for the fiscal year 1916.</p>  |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <i>Eradication of Pink Bollworm—</i>   |   |   |
| (9) To enable the Secretary of Agriculture to meet the emergency caused by the existence of the pink bollworm of cotton in Mexico, and to prevent the establishment of such insect in the United States by the employment of all means necessary, including rent outside of the District of Columbia and the employment of persons and means in the city of Washington and elsewhere, <b>["\$595,800"]</b> \$388,560, as follows ( <i>act July 24, 1919, vol. 41, pp. 269, 270, sec. 1</i> ):  |   |   |
| To prevent the movement of cotton and cotton seed from Mexico into the United States, including the regulation of the entry into the United States of railway cars and other vehicles, and freight, express, baggage, or other materials from Mexico, and the inspection, cleaning, and disinfection thereof, \$148,560; any moneys received in payment of charges fixed by the Secretary of Agriculture on account of such cleaning and disinfection at plants constructed therefor out of any appropriation made on account of the pink bollworm of cotton to be covered into the Treasury as miscellaneous receipts ( <i>same acts</i> ).....   | \$148,560.00  |   |
| To make surveys to determine the actual distribution of the pink bollworm in Mexico and to exterminate local infestations in Mexico near the border of the United States, in cooperation with the Mexican Government or local Mexican authorities <b>["\$25,000"]</b> ( <i>same acts</i> ).....  | 10,000.00   |   |
| To investigate in Mexico or elsewhere the pink bollworm as a basis for control measures <b>["\$25,000"]</b> ( <i>same acts</i> ).....  | 5,000.00  |   |
| To conduct surveys and inspections in Texas or in any other State to detect any infestation and to conduct such control measures, including the establishment of cotton-free areas, in cooperation with the State of Texas or other States concerned, as may be necessary to stamp out such infestation, to establish in cooperation with the States concerned a zone or zones free from cotton culture on or near the border of any State or States adjacent to Mexico, and to cooperate with the Mexican Government or local Mexican authorities, or otherwise, by undertaking in Mexico such measures for the extermination of the pink bollworm of cotton as shall be determined to be practicable from surveys showing its distribution, <b>["\$397,240"]</b> \$225,000: <i>Provided</i> , That no part of the money herein appropriated shall be used to pay the cost or value of crops or other property injured or destroyed ( <i>same acts</i> )..... | 225,000.00  |   |
|  | \$388,560.00  | \$595,800.00  |
| Appropriations for 1917..... \$50,000    Estimates for 1918..... \$250,000<br>Appropriations for 1918..... 259,000    Estimates for 1919..... 599,000<br>Appropriations for 1919..... 599,000    Estimates for 1920..... 595,800<br>Appropriations for 1920..... 595,800    Estimates for 1921..... 388,560  |   |   |
| NOTE.—There is an apparent decrease in the above item of \$207,240, but taking into consideration transfers to the statutory roll of the Federal Horticultural Board aggregating \$7,500, the actual decrease is \$199,740. In addition 1 assistant, \$2,340, has been transferred to the statutory roll, Division of Publications, making the net decrease in the item \$197,400. The work in the control of the pink bollworm of cotton is in such satisfactory shape that it will probably be safe to materially reduce the appropriation.  |   |   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

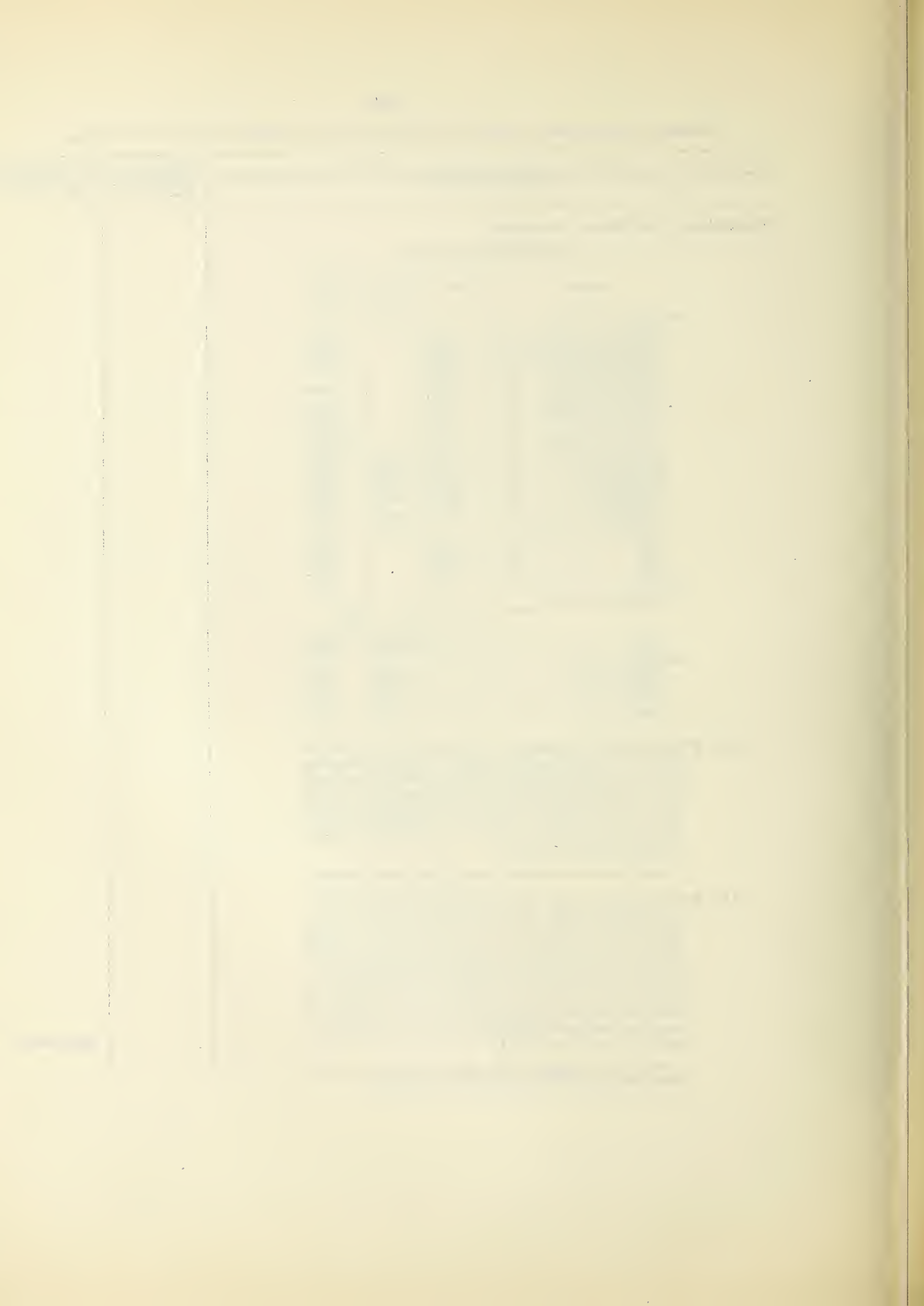
| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                     |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|---------------------|-------------------------|---|---|
| <i>Eradication of Pink Bollworm—Continued.</i>  |            |                     |                         |   |   |
| PINK BOLLWORM BORDER INSPECTION.  |            |                     |                         |   |   |
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.      |   |   |
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>          |   |   |
| Plant quarantine inspector...per annum..  | \$2,280.00 | 1                   | 1                       |   |   |
| Plant quarantine inspector.....do....   | 2,220.00   | 1                   | 1                       |   |   |
| Plant quarantine inspectors.....do....  | 2,040.00   | 3                   | 3                       |   |   |
| Plant quarantine inspectors.....do....  | 1,800.00   | 2                   | 2                       |   |   |
| Plant quarantine inspectors.....do....  | 1,740.00   | 2                   | 3 (1 temp.)             |   |   |
| Plant quarantine inspectors.....do....  | 1,680.00   | 2                   | 3 (2 temp.; 1 pt. time) |   |   |
| Fumigating superintendent.....do....  | 1,800.00   | ..                  | 1 (temp.)               |   |   |
| Fumigating mechanic.....do....  | 1,800.00   | 3 (2 new)           | 1 (temp.)               |   |   |
| Clerk.....do....  | 1,200.00   | 1                   | ..                      |   |   |
| Wages:  |            |                     |                         |   |   |
| Miscellaneous temporary labor,<br>\$3 to \$1.25.....per diem..  |            | 10 (pt. time)       | ..                      |   |   |
|   |            | 25                  | 14                      |   |   |
| Salaries.....   |            | \$27,660.00         | \$14,797.67             |   |   |
| Wages.....  |            | 1,000.00            | ..                      |   |   |
| Other objects of expenditure:   |            |                     |                         |   |   |
| Stationery.....   |            | 1,200.00            | ..                      |   |   |
| Traveling expenses.....   |            | 10,000.00           | 6,161.68                |   |   |
| Equipment and material.....   |            | 105,000.00          | 2,926.83                |   |   |
| Miscellaneous items.....  |            | 3,700.00            | 23,478.31               |   |   |
| Total.....  |            | 148,560.00          | 47,364.49               |   |   |
| PINK BOLLWORM COOPERATION IN MEXICO.  |            |                     |                         |   |   |
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.      |   |   |
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>          |   |   |
| Entomological assistant.....per annum..   | \$3,180.00 | ..                  | 1 (temp.)               |   |   |
| Special field agent.....do....  | 1,200.00   | 1 (temp.)           | 1 (temp.)               |   |   |
| Plant quarantine inspector.....do....   | 2,040.00   | 1 (new)             | ..                      |   |   |
|   |            | 2                   | 2                       |   |   |
| Salaries.....   |            | \$3,240.00          | \$1,905.00              |   |   |
| Other objects of expenditure:   |            |                     |                         |   |   |
| Traveling expenses.....   |            | 3,000.00            | 2,323.14                |   |   |
| Equipment and material.....   |            | 500.00              | 40.00                   |   |   |
| Miscellaneous items.....  |            | 3,260.00            | 386.62                  |   |   |
| Total.....  |            | 10,000.00           | 4,654.76                |   |   |
| PINK BOLLWORM RESEARCH INVESTIGATIONS.  |            |                     |                         |   |   |
| Employees.  | Rate.      | Estimated,<br>1921. | Expended,<br>1919.      |   |   |
| Salaries:   |            | <i>Number.</i>      | <i>Number.</i>          |   |   |
| Entomological assistant.....per annum..   | \$1,920.00 | 1                   | 1                       |   |   |
| Scientific assistant.....do....   | 1,720.00   | 1 (pt. time)        | 1                       |   |   |
| Plant quarantine inspector.....do....   | 1,720.00   | 1 (pt. time)        | 1 (pt. time)            |   |   |
|   |            | 3                   | 3                       |   |   |
| Salaries.....   |            | \$3,630.00          | \$5,216.67              |   |   |
| Other objects of expenditure:   |            |                     |                         |   |   |
| Traveling expenses.....   |            | 970.00              | 2,332.00                |   |   |
| Equipment and material.....   |            | 200.00              | 662.72                  |   |   |
| Miscellaneous items.....  |            | 200.00              | 1,056.89                |   |   |
| Total.....  |            | 5,000.00            | 9,268.28                |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   |            |                  |                         | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|-------------------------|---|---|
| <b>Eradication of Pink Bollworm—Continued.</b>  |            |                  |                         |   |   |
| <b>PINK BOLLWORM ERADICATION.</b>   |            |                  |                         |   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919.         |   |   |
| Salaries:   |            |                  |                         |   |   |
| Specialist in control of pink bollworm.....per annum..  | \$3,000.00 | Number.          | Number.                 |   |   |
| Specialist on forest lepidoptera....do....  | 1,800.00   | ...              | 1 (temp.)               |   |   |
| Assistant entomological inspector....do....   | 1,400.00   | ...              | 1 (temp.)               |   |   |
| Plant quarantine inspector.....do....   | 2,040.00   | ...              | 1 (temp.)               |   |   |
| Plant quarantine inspector.....do....   | 2,000.00   | 1                | 1 (pt.time)             |   |   |
| Plant quarantine inspector.....do....   | 1,920.00   | 1                | 1                       |   |   |
| Plant quarantine inspectors.....do....  | 1,800.00   | 2                | 4 (2 temp.)             |   |   |
| Plant quarantine inspector.....do....   | 1,740.00   | 1                | 1                       |   |   |
| Plant quarantine inspector.....do....   | 1,680.00   | 1                | 1 (pt.time)             |   |   |
| Plant quarantine inspectors.....do....  | 1,600.00   | 2                | 2 (1 temp.)             |   |   |
| Plant quarantine inspectors.....do....  | 1,500.00   | 20               | 12 (1 pt.time; 2 temp.) |   |   |
| Plant quarantine inspectors.....do....  | 1,400.00   | 20               | 16 (4 temp.)            |   |   |
| Plant quarantine inspectors.....do....  | 1,300.00   | ...              | 1 (temp.)               |   |   |
| Plant quarantine inspectors.....do....  | 1,200.00   | 35 (22 temp.)    | 35 (22 temp.)           |   |   |
| Scientific assistant.....do....   | 2,000.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Scientific assistant.....do....   | 1,800.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Scientific assistant.....do....   | 1,600.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Scientific assistant.....do....   | 1,560.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Scientific assistant.....do....   | 1,380.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Field assistant.....do....  | 2,340.00   | ...              | 1 (temp.)               |   |   |
| Field assistant.....do....  | 1,200.00   | 1 (temp.)        | 1 (temp.)               |   |   |
| Field aid, inspector and messenger, \$300 to \$500.....do....   | ...        | 25 (12 temp.)    | 22 (temp.)              |   |   |
| Clerk.....do....  | 1,620.00   | ...              | 1 (temp.)               |   |   |
| Clerk.....do....  | 1,560.00   | ...              | 1 (temp.)               |   |   |
| Clerks.....do....   | 1,400.00   | ...              | 2 (1 temp.)             |   |   |
| Clerks.....do....   | 1,260.00   | ...              | 2 (temp.)               |   |   |
| Clerks.....do....   | 1,200.00   | ...              | 5 (4 temp.)             |   |   |
| Clerks.....do....   | 1,080.00   | ...              | 2 (temp.)               |   |   |
| Wages:  |            |                  |                         |   |   |
| Miscellaneous temporary labor, \$3 to \$1.25.....per diem..   | ...        | 400              | 2,706                   |   |   |
|   |            | 515              | 2,826                   |   |   |
| Salaries.....   |            | \$55,500.00      | \$68,067.16             |   |   |
| Wages.....  |            | 75,000.00        | 64,230.80               |   |   |
| Other objects of expenditure:   |            |                  |                         |   |   |
| Stationery.....   |            | 2,000.00         | 2,525.85                |   |   |
| Traveling expenses.....   |            | 80,000.00        | 97,491.61               |   |   |
| Equipment and material.....   |            | 4,000.00         | 1,583.28                |   |   |
| Miscellaneous items.....  |            | 8,500.00         | 8,731.94                |   |   |
| Total.....  |            | 225,000.00       | 242,630.64              |   |   |
| (10) [That hereafter the Secretary of Agriculture may, in his discretion and under such conditions as he may prescribe, supply to any municipality or public institution not more than one American bison from any surplus which may exist in any herd under the control of the Department of Agriculture; and, in order to aid in the propagation of the species, animals may be loaned to or exchanged with other owners of American bison]   |            |                  |                         |   |   |
| NOTE.—The above paragraph is omitted as it is permanent legislation.  |            |                  |                         |   |   |
| (11) [That, in order to carry out the purposes mentioned in section 3 of the act entitled "An act to enable any State to cooperate with any other State or States, or with the United States for the protection of the watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers," approved Mar. 1, 1911 (36 Stat. L., p. 961), as amended, there is hereby appropriated, out of any moneys in the Treasury not otherwise appropriated, available until expended, the sum of \$600,000 for the fiscal year ending on the 30th day of June, 1920] |            |                  |                         |   | \$600,000.00  |
| NOTE.—It is understood that the estimate for this item will be submitted later by the National Forest Reservation Commission.   |            |                  |                         |   |   |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
|---|---|---|------------------------|--------|--|----------------|--------------------------|--------|------------------------|--------|-------------------------------|-------|--|--------------|--|--|
| <p>(12) Whenever, during the fiscal year ending June 30, <del>1920</del> 1921, the Secretary of Agriculture shall find that the expenses of travel can be reduced thereby, he may, in lieu of actual traveling expenses, under such regulations as he may prescribe, authorize the payment of not to exceed 3 cents per mile for a motor cycle or 7 cents per mile for an automobile, used for necessary travel on official business (<i>act July 24, 1919, vol. 41, p. 270, sec. 1</i>).</p> <p>NOTE.—The figure “1920” has been changed to “1921” to make the provision applicable to the next fiscal year.</p>   |   |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| <i>Investigation and Prevention of Plant-Dust Explosions and Fires—</i>   |   |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| <p>(13) <i>To enable the Secretary of Agriculture to cooperate with State officials, farmers, operators of cotton gins, grain mills and elevators, and other warehouses, manufacturers and operators of farm machinery, in investigating causes of, and in developing and putting into general practice methods for protection against grain dust, smut dust, or other plant-dust explosions and resulting fires, including fires in cotton gins and oil mills; to devise and demonstrate methods for destroying or preventing the wide dissemination of smut spores; and to study the problems of cleaning and handling grain in threshing machines, grain mills, and elevators (submitted)</i></p>  | \$100,000.00  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| <p>NOTE.—This is a new item. Plant-dust explosions and fires in grain mills and elevators, threshing machines, and cotton gins have resulted in the loss of scores of human lives as well as enormous property losses. The campaign conducted cooperatively by the Bureau of Chemistry, Bureau of Markets, and Bureau of Plant Industry under the funds provided in the food production act last year were of great benefit to the agricultural, grain, and milling industries of the country in reducing these losses. It also brought out many problems which previous investigations did not solve and indicated very clearly the importance of making provision for the continuation of the investigational work upon which the campaign was based. Explosions and fires in three types of plants were dealt with, namely, mills and elevators, threshing machines, and cotton gins. As the funds provided for the work under the food production act were withdrawn June 30, 1919, it was necessary to discontinue the demonstration work on that date and to take steps to terminate the appointment of the men engaged upon it. Because of the savings that had been effected, the United States Grain Corporation indicated its desire to carry on the work, in so far as it related to grain elevators and flour mills, and reemployed some of the men formerly engaged thereon, and it is now cooperating with this department in so far as the very limited funds of the Bureau of Chemistry will permit.</p> <p>This work is conducted chiefly as an educational campaign of prevention, and it is impossible, with existing funds and facilities, to undertake in an adequate manner the essential investigational work which was suspended at the outbreak of the war. The activities of the department in connection with the prevention of plant-dust explosions and fires involve the close and effective cooperation of the Bureau of Chemistry, Bureau of Markets, and Bureau of Plant Industry. Each of the bureaus is equipped to deal with a particular phase of the problem, and there is a thorough understanding among them regarding the matter.</p> <p>It is proposed to apportion the funds required for conducting the three lines of work contemplated under this item as follows:</p> <p>(a) Grain-dust explosions and fires in mills and elevators:</p> <table><tr><td>Bureau of Chemistry.....</td><td>\$35,000</td></tr><tr><td>Bureau of Markets.....</td><td>15,000</td></tr><tr><td></td><td><hr/>\$50,000</td></tr></table> <p>(b) Thresher explosions and fires, grain cleaning, and smut control investigations:</p> <table><tr><td>Bureau of Chemistry.....</td><td>10,000</td></tr><tr><td>Bureau of Markets.....</td><td>10,000</td></tr><tr><td>Bureau of Plant Industry.....</td><td>5,000</td></tr><tr><td></td><td><hr/>25,000</td></tr></table> | Bureau of Chemistry.....  | \$35,000  | Bureau of Markets..... | 15,000 |  | <hr/> \$50,000 | Bureau of Chemistry..... | 10,000 | Bureau of Markets..... | 10,000 | Bureau of Plant Industry..... | 5,000 |  | <hr/> 25,000 |  |  |
| Bureau of Chemistry.....  | \$35,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| Bureau of Markets.....  | 15,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
|   | <hr/> \$50,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| Bureau of Chemistry.....  | 10,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| Bureau of Markets.....  | 10,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
| Bureau of Plant Industry.....   | 5,000   |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |
|   | <hr/> 25,000  |   |                        |        |  |                |                          |        |                        |        |                               |       |  |              |  |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object. |            |                  |                              | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|------------|------------------|------------------------------|---|---|
| <i>Investigation and Prevention of Plant-Dust Explosions and Fires—Continued.</i>   |            |                  |                              |   |   |
| (c) Cotton gin fires:   |            |                  |                              |   |   |
| Bureau of Chemistry.....  |            |                  |                              | \$20,000  |   |
| Bureau of Markets.....  |            |                  |                              | 5,000   |   |
|   |            |                  |                              | <hr/> \$25,000  |   |
|   |            |                  |                              | 100,000   |   |
| Employees.  | Rate.      | Estimated, 1921. | Expended, 1919. <sup>1</sup> |   |   |
| Salaries:   |            | <i>Number.</i>   | <i>Number.</i>               |   |   |
| Engineer in charge.....per annum..  | \$3,000.00 | 1                | ..                           |   |   |
| Specialist in grain-dust explosion prevention.....do....  | 3,000.00   | 1                | ..                           |   |   |
| Assistant in charge.....do....  | 2,760.00   | 1                | ..                           |   |   |
| Physical chemist.....do....   | 2,400.00   | 1                | ..                           |   |   |
| Milling engineer.....do....   | 2,400.00   | 1                | ..                           |   |   |
| Milling engineers.....do....  | 1,800.00   | 2                | ..                           |   |   |
| Milling engineers.....do....  | 1,620.00   | 3                | ..                           |   |   |
| Experts in grain-cleaning machinery.....do....  | 2,400.00   | 1                | ..                           |   |   |
| Agricultural engineer.....do....  | 2,400.00   | 1                | ..                           |   |   |
| Assistant chemist.....do....  | 1,800.00   | 1                | ..                           |   |   |
| Scientific assistants.....do....  | 1,800.00   | 4                | ..                           |   |   |
| Scientific assistant.....do....   | 1,600.00   | 1                | ..                           |   |   |
| Assistant agricultural engineers.....do....   | 1,800.00   | 2                | ..                           |   |   |
| Assistants.....do....   | 1,800.00   | 2                | ..                           |   |   |
| Assistants.....do....   | 1,620.00   | 5 (temp.)        | ..                           |   |   |
| Clerks.....do....   | 1,200.00   | 3                | ..                           |   |   |
| Expert mechanics.....per month.   | 150.00     | 6 (temp.)        | ..                           |   |   |
| Analysts.....do....   | 125.00     | 2 (temp.)        | ..                           |   |   |
|   |            | 38               | ..                           |   |   |
| Salaries.....   |            | \$56,270.00      |                              |   |   |
| OTHER OBJECTS OF EXPENDITURE.   |            |                  |                              |   |   |
| Traveling expenses.....   |            | 29,400.00        |                              |   |   |
| Equipment and material.....   |            | 10,350.00        |                              |   |   |
| Miscellaneous items.....  |            | 3,980.00         |                              |   |   |
| Total.....  |            | 100,000.00       |                              |   |   |

<sup>1</sup> No appropriation for fiscal year 1919.

- (14) *Officers and employees of the Department of Agriculture during the fiscal year ending June 30, 1921, while traveling on official business away from their designated posts of duty may be allowed not to exceed \$7 per day for subsistence, but in no case shall they be reimbursed any sum in excess of expenses actually incurred by them.*

NOTE.—This paragraph and item 15 provide for increasing the maximum allowances that may be made to employees traveling on official business (a) in lieu of subsistence, and (b) for actual traveling expenses, the former from \$4 to \$6 per diem and the latter from \$5 to \$7 per diem. The present rates were fixed by the act of April 6, 1914 (urgent deficiency act, fiscal year 1914), and the act of August 1, 1914 (sundry civil appropriation act for the fiscal year 1915), and they were fairly adequate at the time. The constantly increasing cost of subsistence, however, during the past two or three years has seriously altered the situation and makes it imperative that the rates be advanced in order to meet present conditions. This is especially true in reference to subsistence in the larger cities. When the existing rates were established, and for a time thereafter, a room with bath in a first-class hotel could be secured for from \$2 to \$2.50 per day. Now \$4 or \$5 per day must be paid for the same accommodations in the larger cities. The price of meals also has advanced at least 50 per cent. in many cases 100 per cent. Not infrequently it occurs that the cost of lodging and subsistence in the larger cities ranges from \$7.50 to \$9 or \$10 a day. During the past four or five months there has been a decided increase in hotel rates, particularly in the larger eastern and middle-western cities. While some hotels may, and frequently do, advertise rooms with running water or with private bath for \$2 or \$3, travelers almost invariably find upon arrival that no rooms at these prices are available. The smaller, older, and cheaper hotels which advertise rooms at \$2 and \$2.50 seldom seem to have any vacant rooms at these rates when an attempt is made to secure them. It is now practically impossible to find such accommodations in New York, Boston, Philadelphia, Chicago, or Kansas City at less than \$3.50 and frequently \$4. In the circumstances, the officers of the



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|---|---|---|
| <p>department who are required to travel on official business have had to pay out of their personal funds expenditures in excess of the maximum allowances. This is a distinct injustice to them, and the situation not only is a source of dissatisfaction on the part of the employees, but it also increases the difficulty of securing and retaining qualified men in the service.</p> <p>Other branches of the Government have experienced similar difficulty and it is understood that they also are bringing the matter to the attention of Congress in their estimates for the fiscal year 1921.</p> <p>(15) <i>The Secretary of Agriculture during the fiscal year ending June 30, 1921, is authorized to prescribe per diem rates of allowance not exceeding \$6 in lieu of subsistence to officers or employees of the Department of Agriculture engaged in field work or traveling on official business outside of the District of Columbia away from their designated posts of duty.</i></p> <p>NOTE.—See note under item 14.</p> <p>(16) <i>The employees of the Department of Agriculture, outside of the District of Columbia, may hereafter, in the discretion of the Secretary of Agriculture, be granted leave of absence not to exceed 30 days in any one year, which leave may, in exceptional and meritorious cases, where such employee is ill, be extended in the discretion of the Secretary of Agriculture not to exceed 30 days additional in any one year.</i></p> <p>NOTE.—The effect of this provision will be to place the field employees of the department on exactly the same basis, so far as annual and sick leave of absence is concerned, as employees in the District of Columbia. At the present time employees of the department with headquarters outside the District of Columbia are granted only 15 days annual leave, with extension of not to exceed 15 days additional in exceptional and meritorious cases where an employee is ill, except that employees assigned to permanent duty in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands now receive the same benefits as to annual and sick leave as are enjoyed by those having permanent headquarters in Washington. As a matter of justice and equity, field employees should be given the same consideration with respect to leave of absence as employees in Washington. Such action would undoubtedly improve the morale of the service and make for the more efficient performance of the work of the department. The present 15-day limitation has been the cause of much dissatisfaction among the field employees, who feel that they should be placed on the same basis as the Washington employees in the matter of leave.</p> <p>The language of the paragraph is the same as that of existing law (act of May 23, 1908, 35 Stat., 267), except that the word "thirty" has been substituted for "fifteen" in the two places where the latter word occurs. Under its terms the Secretary of Agriculture is given discretionary power as to the granting of leave. Such authority is desirable, as it will enable the Secretary to determine in any particular case whether the demands of the service will permit the granting of the full 30 days annual and 30 days sick leave to field employees.</p> <p>Attention is invited to the fact that field employees of the Treasury Department, the Department of Justice, the Department of Commerce, the Department of Labor, the Department of the Interior, the War Department, and the State Department may be granted 30 days annual and 30 days sick leave. The field employees of the Post Office Department may be allowed 15 days annual leave, the employees of the Navy Department 30 days annual and 15 days sick leave, and the Interstate Commerce Commission 30 days annual and 30 days sick leave, with the exception of the employees engaged on railway valuation work, who may be granted 15 days annual and 30 days sick leave.</p> |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <p>(17) <i>Hereafter, if any employee of the Department of Agriculture assigned to permanent duty in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands shall elect to postpone taking any or all of the annual leave to which he may be entitled, he may, in the discretion of the Secretary of Agriculture, subject to the interests of the public service, be allowed to take at one time in any calendar year unused annual leave which may have accumulated within not to exceed four calendar years immediately preceding and be paid at the rates prevailing during the year such leave has accumulated.</i></p> <p>NOTE.—The above legislation is recommended in order to make the accumulative leave privilege applicable to all employees of the department assigned to permanent duty in the insular possessions and in Alaska. The existing law applies only to employees of the States Relations Service.</p> <p>(18) <b>That hereafter in carrying on the activities of the Department of Agriculture involving cooperation with State, county and municipal agencies, associations of farmers, individual farmers, universities, colleges, boards of trade, chambers of commerce, or other local associations of business men, business organizations, and individuals within the State, Territory, district or insular possession in which such activities are to be carried on, moneys contributed from such outside sources, except in the case of the authorized activities of the Forest Service, shall be paid only through the Secretary of Agriculture or through State, county or municipal agencies, or local farm bureaus or like organizations, cooperating for the purpose with the Secretary of Agriculture</b></p> <p><b>The officials and the employees of the Department of Agriculture engaged in the activities described in the preceding paragraph and paid in whole or in part out of funds contributed as provided therein, and the persons, corporations, or associations making contributions as therein provided, shall not be subject to the proviso contained in the act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1918, and for other purposes, approved Mar. 3, 1917, in 39 Stat. L., at p. 1106; nor shall any official or employee engaged in the cooperative activities of the Forest Service, or the persons, corporations, or associations contributing to such activities be subject to the said proviso</b></p> <p>NOTE.—The above paragraphs covering cooperation with outside agencies are omitted, as they are permanent legislation.</p> |   |   |
| <p>(19) <b>To enable the Secretary of Agriculture to make suitable agricultural exhibits at State, interstate, and international fairs held within the United States, including the National Dairy Show to be held at Chicago, Ill., during the fiscal year ending June 30, 1920, \$100,000: <i>Provided</i>, That not more than \$25,000 shall be used in connection with the National Dairy Show to be held at Chicago, Ill., and that not more than \$5,000 shall be used in connection with any other one fair</b></p> <p>NOTE.—This item has been reduced to \$50,000 and transferred to the Division of Publications.</p>  |   | \$100,000   |



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

| General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| (20) <b>■</b> That the President is hereby authorized to extend invitations to other nations to appoint delegates or representatives to the International Farm Congress to be held at Kansas City, Mo., in September, 1919 <b>■</b>  |   |   |
| NOTE.—This paragraph refers to the Farm Congress held in September, 1919, and should therefore be omitted.   |   |   |
| (21) <b>■</b> That the President is hereby authorized to extend invitations to all nations of the world interested in the manufacturing or raising of cotton to appoint delegates or representatives to the World Cotton Conference to be held at New Orleans, La., Oct. 13, 14, 15, and 16, 1919: <i>Provided</i> , That no appropriation shall be granted for the expenses of such delegates or for any other expenses incurred in connection with said conference <b>■</b>  |   |   |
| NOTE.—This paragraph refers to the conference held during October, 1919, and should therefore be omitted.  |   |   |
| (22) <b>■</b> That the word "package" where it occurs the second and last time in the act entitled "An act to amend section 8 of an act entitled, 'An act for preventing the manufacture, sale, or transportation of adulterated or misbranded or poisonous deleterious foods, drugs, medicines, and liquors, and for regulating traffic therein, and for other purposes,' " approved Mar. 3, 1913, shall include and shall be construed to include wrapped meats inclosed in papers or other materials as prepared by the manufacturers thereof for sale <b>■</b>   |   |   |
| NOTE.—This paragraph is omitted, as it is permanent legislation.   |   |   |
| (23) <b>■</b> That any homestead settler or entryman who, during the calendar year 1919, finds it necessary to leave his homestead to seek employment in order to obtain food and other necessities of life for himself, family, and work stock, because of great and serious drought conditions, causing total or partial failures of crops, may, upon filing with the register and receiver proof of such conditions in the form of a corroborated affidavit, be excused from residence upon his homestead during all or part of the calendar year 1919, or the current year of such homestead which may fall principally in the year 1919, and in the making of final proof upon such an entry absence granted under this act shall be counted and construed as constructive residence by said homesteader <b>■</b> |   |   |
| NOTE.—This paragraph is omitted, as it is applicable only to the calendar year 1919 and is unnecessary for any part of the fiscal year 1921.   |   |   |
| (24) <i>That section 62 of the act of Mar. 4, 1909 (35 Stat., 1100), entitled "An act to codify, revise and amend the penal laws of the United States," is hereby amended by inserting after the name "Bureau of Animal Industry" where it occurs in that section the following: "of the Forest Service or of the Bureau of Biological Survey," so that the section will hereafter read as follows:</i>  |   |   |
| <i>Sec. 62. Whoever shall forcibly assault, resist, oppose, prevent, impede, or interfere with any officer or employee of the Bureau of Animal Industry, of the Forest Service, or of the Bureau of Biological Survey, of the Department of Agriculture in the execution of his duties, or on account of the execution of his duties, shall be fined not more than \$1,000,</i>  |   |   |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

| General object (title of appropriation), date of acts, reference to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.   | Total amount to be appropriated under each head of appropriation.   | Amount appropriated for the fiscal year ending June 30, 1920. |
|--|---|---|
| <p><i>or imprisoned not more than one year, or both; and whoever shall use any deadly or dangerous weapon in resisting any officer or employee of the Bureau of Animal Industry, of the Forest Service, or of the Bureau of Biological Survey, of the Department of Agriculture in the execution of his duties, with intent to commit a bodily injury upon him or to deter or prevent him from discharging his duties, or on account of the performance of his duties, shall be fined not more than \$1,000, or imprisoned not more than five years, or both.</i></p> <p>NOTE.—By act of Feb. 5, 1905 (33 Stat., 700), persons employed in the forest reserve service are empowered to make arrests for violation of the laws and regulations relating to the forest reserves, and by section 5 of the migratory bird treaty act of July 3, 1918 (40 Stat., 755), any employee of the Department of Agriculture authorized by the Secretary of Agriculture to enforce the provisions of the act is empowered to arrest persons committing a violation of the act. Employees of the Forest Service and of the Biological Survey engaged in the enforcement of the forest reserve laws and of the laws relating to migratory birds, and to interstate commerce in wild animals and birds killed and shipped in violation of State laws, have no statutory protection at the present time against violence in opposition to the performance of their duties, which are obviously of a hazardous nature. This lack of protection is well known, and in several instances has encouraged unprovoked and wholly inexcusable acts of physical violence upon employees of the department while in the discharge of their lawful duties. Furthermore, the lack of such protection breeds contempt of the authority conferred by law upon employees of the department engaged in the execution of the penal statutes committed to it for administration. Amendment of section 62 of the Penal Code so as to include officers and employees of the Forest Service and of the Biological Survey, is therefore urgent.</p> <p>(25) <i>Officers and employees of the Department of Agriculture traveling on official business, when authorized by the Secretary of Agriculture to receive per diem allowance in lieu of subsistence, in accordance with section 13 of the act of Aug. 1, 1914 (38 Stat., 680), shall receive such allowances from each lump-sum appropriation provided for herein and made available for travel expenses, at rates of \$1.20, \$1.50, \$2.40, \$2.50, \$3, \$3.50, \$4, \$4.50, \$5, \$5.50, or \$6, varying with the character of work to be performed and the section of the country to be visited.</i></p> <p>NOTE.—This item is annually submitted in accordance with section 13 of the act of Aug. 1, 1914 (38 Stat., 680), except that additional rates, \$4.50 to \$6, have been added in view of the recommendation under item 15 increasing the maximum per diem rate to \$6.</p> |   |   |
| Total salaries, Department of Agriculture.....   | \$5,431,290.00  | \$6, 575, 390. 00   |
| Total general expenses, Department of Agriculture.....   | 32,096,812.00   | 27, 324, 371. 00  |
| Grand total, Department of Agriculture.....  | 37,528,102.00   | 33, 899, 761. 00  |
| <div> <div> Total appropriations included in the Agricultural appropriation act: </div> <div> For the fiscal year 1911.... \$13,487,636<br/> For the fiscal year 1912.... 16,900,016<br/> For the fiscal year 1913.... 16,651,496<br/> For the fiscal year 1914.... 17,986,945<br/> For the fiscal year 1915.... 19,865,832<br/> For the fiscal year 1916.... 22,971,782<br/> For the fiscal year 1917.... 24,948,852<br/> For the fiscal year 1918.... 25,929,113<br/> For the fiscal year 1919.... 27,875,352<br/> For the fiscal year 1920.... 33,899,761 </div> </div>   | <div> <div> Total amount submitted in printed estimates for inclusion in the Agricultural appropriation bill: </div> <div> For the fiscal year 1912.... \$15,997,066<br/> For the fiscal year 1913.... 17,233,452<br/> For the fiscal year 1914.... 18,287,230<br/> For the fiscal year 1915.... 19,061,332<br/> For the fiscal year 1916.... 20,706,013<br/> For the fiscal year 1917.... 24,159,089<br/> For the fiscal year 1918.... 26,096,907<br/> For the fiscal year 1919.... 26,458,551<br/> For the fiscal year 1920.... 30,048,786<br/> For the fiscal year 1921.... 37,528,102 </div> </div> |   |
| <p>NOTE.—The estimate of the Secretary of Agriculture for "printing and binding," under section 2, act of May 8, 1872 (Rev. Stat., 720, sec. 3661), will be found under the title of "Miscellaneous," <i>post</i>, in the Book of Estimates.</p> <p>For statement of condition of work, efficiency of employees, etc., see Appendix D, in the Book of Estimates.</p>   |   |   |





## Buildings rented by the Department of Agriculture in the District of Columbia for the fiscal year 1920.

| Name or location of building.  | Purpose for which used.  | Floor space (gross).     | Annual rental. | Annual rental per square foot. | Assessed valuation of buildings and grounds. | Proportion rental cover, cost of heat, light, water, elevator, or other service. |
|--|--|--------------------------|----------------|--------------------------------|--|--|
| 1358 B Street SW.....  | Bureau of Markets, department library, Bureau of Plant Industry, Bureau of Biological Survey, Bureau of Crop Estimates, Division of Publications (offices and laboratories). | <i>Sq. ft.</i><br>88,955 | \$35,360.00    | \$0.397                        | \$187,180.00                                 | (1)  |
| 220 Fourteenth Street SW.....  | Bureau of Plant Industry, States Relations Service (offices and storage).  | 55,603                   | 20,000.00      | .36                            | 122,196.00                                   | (1)  |
| Atlantic Building, 930 F Street NW.....  | Forest Service (offices).....  | 45,310                   | 22,500.00      | .496                           | 154,404.00                                   | <sup>2</sup> \$10,000.00   |
| Homer Building, 601 Thirteenth Street NW (portion of third floor).                 | Bureau of Plant Industry (offices).....  | 9,529                    | 8,500.00       | .892                           | 904,100.00                                   | 500.00   |
| 216 Thirteenth Street SW.....  | Bureau of Chemistry (offices and laboratories).....  | 56,154                   | 16,000.00      | .284                           | 96,946.00                                    | (1)  |
| Busch Building, 710 E Street NW.....   | Bureau of Animal Industry, Bureau of Soils (offices and storage).....  | 36,149                   | 12,000.00      | .331                           | 83,010.00                                    | (1)  |
| Willard Building, 513-515 Fourteenth Street NW.....                                | Bureau of Public Roads (offices and laboratories).....   | 33,851                   | 9,500.00       | .281                           | 161,836.00                                   | (1)  |
| Globe Building, 339 Pennsylvania Avenue NW.....                                    | Bureau of Plant Industry (packeting, assembling, and mailing seeds; storage).....  | 39,279                   | 4,800.00       | .122                           | 13,250.00                                    | (1)  |
| 215 Thirteenth Street SW.....  | Division of Publications (offices and storage).....  | 18,258                   | 4,000.00       | .218                           | 21,287.00                                    | (1)  |
| 1316 B Street SW.....  | Office of the Solicitor (office and storage).....  | 9,792                    | 3,000.00       | .306                           | 18,004.00                                    | (1)  |
| 220 Thirteenth Street SW.....  | Insecticide and Fungicide Board, Bureau of Chemistry (offices and laboratories).....   | 9,843                    | 3,000.00       | .304                           | 17,045.00                                    | (1)  |
| 200-202 Fourteenth Street SW.....  | Office of Farm Management.....   | 14,077                   | 3,000.00       | .212                           | 22,908.00                                    | (1)  |
| 1350 B Street SW.....  | Bureau of Animal Industry (offices).....   | 6,405                    | 2,700.00       | .421                           | 16,860.00                                    | (1)  |
| 1304-1306 B Street SW.....   | Bureau of Plant Industry (offices and storage).....  | 13,010                   | 2,500.00       | .192                           | 21,669.00                                    | (1)  |
| 224 Twelfth Street SW. <sup>3</sup> .....  | Office of Farm Management (offices and storage).....   | 11,894                   | 2,500.00       | .21                            | 17,076.00                                    | (1)  |
| 215 Twelfth Street SW. <sup>3</sup> .....  | Office of Farm Management (offices).....   | 2,810                    | 450.00         | .16                            | 3,646.00                                     | (1)  |
| 217 Twelfth Street SW. <sup>4</sup> .....  | Office of Farm Management, Office of Exhibits (offices).....   | 2,596                    | 450.00         | .173                           | 4,333.00                                     | (1)  |
| Munsey Building, room 633.....   | Bureau of Animal Industry (offices).....   | 366                      | 420.00         | 1.15                           | 1,240,346.00                                 | 100.00   |
| 221 Linworth Place SW.....   | Bureau of Markets, Bureau of Animal Industry, Bureau of Plant Industry (offices, warehouse, cotton and paper work).....  | 22,067                   | 5,400.00       | .245                           | 31,287.00                                    | (1)  |
| 220 Linworth Place SW.....   | Bureau of Markets, Bureau of Animal Industry, Office of the Secretary (storage).....   | 15,820                   | 3,750.00       | .237                           | 19,177.00                                    | (1)  |
| Terminal Storage Warehouse, E Street, between Eleventh and Twelfth Streets SW..... | Bureau of Markets (storage of cotton and paper).....   | 4,519                    | 1,200.00       | .265                           | 271,570.00                                   | (1)  |
| 1315 C Street NW.....  | Bureau of Markets (storage of cotton).....   | 3,680                    | 1,000.00       | .271                           | 6,069.00                                     | (1)  |
| 212-214 Thirteenth Street SW.....  | Bureau of Chemistry (supply room and storage).....   | 9,002                    | 960.00         | .106                           | 8,758.00                                     | (1)  |
| Rear 215 Twelfth Street SW.....  | Bureau of Chemistry, Bureau of Biological Survey, and Bureau of Markets (storage).....   | 2,906                    | 840.00         | .288                           | 3,402.00                                     | (1)  |
| 929 Seventh Street SW.....   | Bureau of Soils, Bureau of Animal Industry, Office of the Secretary, Bureau of Public Roads (storage).....   | 8,553                    | 600.00         | .07                            | 6,459.00                                     | (1)  |
| 2511 M Street NW.....  | Weather Bureau (storage).....  | 2,332                    | 500.00         | .214                           | 2,956.00                                     | (1)  |
| 920 F Street NW (portion of basement).....   | Forest Service (storage).....  | 930                      | 420.00         | .451                           | 68,076.00                                    | (1)  |
| Rear 913 E Street NW.....  | Forest Service (workshop).....   | 1,474                    | 270.00         | .185                           | 2,800.00                                     | (1)  |
| 215 Linworth Place SW.....   | Bureau of Animal Industry (storage).....   | 975                      | 300.00         | .307                           | 3,089.00                                     | (1)  |
| Rear 1228 C Street SW. <sup>5</sup> .....  | Bureau of Public Roads (storage).....  | 1,200                    | 144.00         | .12                            | 400.00                                       | (1)  |
| Rear 349 Pennsylvania Avenue NW.....   | Bureau of Plant Industry (autotruck storage).....  | 233                      | 84.00          | .36                            | 500.00                                       | (1)  |
| 1312 B Street SW.....  | States Relations Service (offices).....  | 3,000                    | 1,000.00       | .333                           | 5,876.00                                     | (1)  |
| Legal Building, Eighth and G Streets NW. <sup>3</sup> .....                        | Bureau of Markets (offices).....   | 8,100                    | 7,000.00       | .864                           | 35,952.00                                    | (1)  |
| 1120 Virginia Avenue SW. <sup>3</sup> .....  | Bureau of Entomology (offices).....  | 2,800                    | 540.00         | .192                           | 3,738.00                                     | (1)  |
| 224 Fourteenth Street SW. <sup>3</sup> .....                                       | States Relations Service (offices).....  | 2,100                    | 840.00         | .40                            | 5,745.00                                     | (1)  |
| 1369 C Street SW.....  | Bureau of Markets (offices and laboratories).....  | 2,057                    | 720.00         | .35                            | 3,291.00                                     | (1)  |
| Rear 217 Twelfth Street SW.....  | Bureau of Chemistry (storage).....   | 2,808                    | 108.00         | .038                           | 300.00                                       | (1)  |
| 930 Baptist Alley NW.....  | Forest Service (autotruck storage).....  | 140                      | 60.00          | .428                           | 300.00                                       | (1)  |
| Rear 1806 E Street NW. <sup>6</sup> .....  | All branches (autotruck storage and repair shop).....  | 3,600                    | 1,200.00       | .333                           | 7,260.00                                     | (1)  |
| Total amount paid for rent in the District of Columbia.....                        |  |                          | 177,616.00     |                                |  |  |

<sup>1</sup> None.<sup>2</sup> Approximately.<sup>3</sup> Vacated by order of Public Buildings Commission, July 31, 1919.<sup>4</sup> Vacated by order of Public Buildings Commission Aug. 31, 1919.<sup>5</sup> Vacated by department, July 31, 1919.<sup>6</sup> Rented from July 1, 1919, by authority of Public Buildings Commission.

Average rental, \$0.321 cents per square foot.





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| PERMANENT ANNUAL APPROPRIATIONS.  |   |   |  |
| (1) <i>Meat Inspection, Bureau of Animal Industry—</i>  |   |   |  |
| That there is permanently appropriated, out of any money in the Treasury not otherwise appropriated, the sum of \$3,000,000, for the expenses of the inspection of cattle, sheep, swine, and goats, and the meat and meat-food products thereof which enter into interstate or foreign commerce, and for all expenses necessary to carry into effect the provisions of this act relating to meat inspection, including rent and the employment of labor in Washington and elsewhere, for each year. And the Secretary of Agriculture shall, in his annual estimates made to Congress, submit a statement in detail, showing the number of persons employed in such inspections and the salary or per diem paid to each, together with the contingent expenses of such inspectors and where they have been and are employed ( <i>act June 30, 1906, vol. 34, pp. 674-679, secs. 1-22</i> ) -----   | \$3, 000, 000. 00   | \$3, 000, 000. 00   | \$3, 000, 000. 00  |
| NOTE.—The detailed statement required by law has been submitted to Congress in a separate communication and will be printed as a public document.   |   |   |  |
| (2) <i>Refund to Depositors Excess of Deposits, National Forests Fund—</i>  |   |   |  |
| That all money received after July 1, 1907, by or on account of the Forest Service for timber, or from any other source of forest-reservation revenue, shall be covered into the Treasury of the United States as a miscellaneous receipt; and there is hereby appropriated and made available as the Secretary of Agriculture may direct, out of any funds in the Treasury not otherwise appropriated, so much as may be necessary to make refunds to depositors of money heretofore or hereafter deposited by them to secure the purchase price on the sale of any products or for the use of any land or resources of the national forests in excess of amounts found actually due from them to the United States.   |   |   |  |
| (3) That so much of an act entitled "An act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1908," approved Mar. 4, 1907 (34 Stat. L., pp. 1256, 1270), which provides for refunds by the Secretary of Agriculture to depositors of moneys to secure the purchase price of timber or the use of lands or resources of the national forests such sums as may be found to be in excess of the amounts found actually due the United States, be, and is hereby amended hereafter to appropriate and to include so much as may be necessary to refund or pay over to the rightful claimants such sums as may be found by the Secretary of Agriculture to have been erroneously collected for the use of any lands, or for timber or other resources sold from lands located within, but not a part of, the national forests, or for alleged illegal acts done upon such lands, which acts are subsequently found to have been proper and legal; and the Secretary of Agriculture shall make annual report to Congress of the amounts refunded hereunder ( <i>acts Mar. 4, 1907, vol. 34, pp. 1256, 1270, sec. 1; Mar. 4, 1911, vol. 36, p. 1253, sec. 1</i> ) ----- | 50, 000. 00   | 70, 000. 00   | 51, 634. 86  |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| <p>(4) <i>Acquisition of Lands for Protection of Watersheds of Navigable Streams—</i></p> <p>That there is hereby appropriated, for the fiscal year ending June 30, 1910, the sum of \$1,000,000, and for each fiscal year thereafter a sum not to exceed \$2,000,000, for use in the examination, survey, and acquirement of lands located on the headwaters of navigable streams or those which are being or which may be developed for navigable purposes: <i>Provided</i>, That the provisions of this section shall expire by limitation on the 30th day of June, 1915 (<i>act Mar. 1, 1911, vol. 36, p. 961, sec. 3</i>) -----</p>  |   |   | \$713, 190. 22   |
| <p>(5) <i>National Forest Reservation Commission—</i></p> <p>That a sum sufficient to pay the necessary expenses of the commission and its members, not to exceed an annual expenditure of \$25,000, is hereby appropriated out of any money in the Treasury not otherwise appropriated. Said appropriation shall be immediately available and shall be paid out on the audit and order of the president of the said commission, which audit and order shall be conclusive and binding upon all departments as to the correctness of the accounts of said commission (<i>act Mar. 1, 1911, vol. 36, p. 963, sec. 14</i>) -----</p>  | \$25, 000. 00   | \$25, 000. 00   | 179. 28  |
| <p>(6) <i>Cooperative Agricultural Extension Work—</i></p> <p>That for the purpose of paying the expenses of said cooperative agricultural extension work and the necessary printing and distributing of information in connection with the same, there is permanently appropriated, out of any money in the Treasury not otherwise appropriated, the sum of \$480,000 for each year, \$10,000 of which shall be paid annually, in the manner hereinafter provided, to each State which shall by action of its legislature assent to the provisions of this act: <i>Provided</i>, That payment of such installments of the appropriation hereinbefore made as shall become due to any State before the adjournment of the regular session of the legislature meeting next after the passage of this act may, in the absence of prior legislative assent, be made upon the assent of the governor thereof, duly certified to the Secretary of the Treasury: <i>Provided further</i>, That there is also appropriated an additional sum of \$600,000 for the fiscal year following that in which the foregoing appropriation first becomes available, and for each year thereafter for seven years a sum exceeding by \$500,000 the sum appropriated for each preceding year, and for each year thereafter there is permanently appropriated for each year the sum of \$4,100,000 in addition to the sum of \$480,000 hereinbefore provided: <i>Provided further</i>, That before the funds herein appropriated shall become available to any college for any fiscal year plans for the work to be carried on under this act shall be submitted by the proper officials of each college and approved by the Secretary of Agriculture. Such additional sums shall be used only for the purposes hereinbefore stated, and</p> |   |   |  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| <i>Cooperative Agricultural Extension Work—Continued.</i>   |   |   |  |
| shall be allotted annually to each State by the Secretary of Agriculture and paid in the manner hereinbefore provided, in the proportion which the rural population of each State bears to the total rural population of all the States as determined by the next preceding Federal census: <i>Provided further</i> , That no payment out of the additional appropriations herein provided shall be made in any year to any State until an equal sum has been appropriated for that year by the legislature of such State, or provided by State, county, college, local authority, or individual contributions from within the State, for the maintenance of the cooperative agricultural extension work provided for in this act ( <i>act May 8, 1914, vol. 38, p. 373, sec. 3</i> ) --  | \$3, 580, 000. 00   | \$3, 080, 000. 00   | \$2, 568, 066. 29  |
| (7) <i>Cooperative Construction of Rural Post Roads—</i>  |   |   |  |
| The Secretary of Agriculture is authorized to cooperate with the States, through their respective State highway departments, in the construction of rural post roads; but no money apportioned under this act to any State shall be expended therein until its legislature shall have assented to the provisions of this act, except that, until the final adjournment of the first regular session of the legislature held after the passage of this act, the assent of the governor of the State shall be sufficient. The Secretary of Agriculture and the State highway department of each State shall agree upon the roads to be constructed therein and the character and method of construction: <i>Provided</i> , That all roads constructed under the provisions of this act shall be free from tolls of all kinds.   |   |   |  |
| SEC. 3. That for the purpose of carrying out the provisions of this act there is hereby appropriated, out of any money in the Treasury not otherwise appropriated, for the fiscal year ending June 30, 1917, the sum of \$5,000,000; for the fiscal year ending June 30, 1918, the sum of \$10,000,000; for the fiscal year ending June 30, 1919, the sum of \$15,000,000; for the fiscal year ending June 30, 1920, the sum of \$20,000,000; and for the fiscal year ending June 30, 1921, the sum of \$25,000,000. So much of the appropriation apportioned to any State for any fiscal year as remains unexpended at the close thereof shall be available for expenditure in that State until the close of the succeeding fiscal year, except that amounts apportioned for any fiscal year to any State which has not a State highway department shall be available for expenditure in that State until the close of the third fiscal year succeeding the close of the fiscal year for which such apportionment was made. Any amount apportioned under the provisions of this act unexpended at the end of the period during which it is available for expenditure under the terms of this section shall be reapportioned, within 60 days thereafter, to all the States in the same manner and on the same basis, and certified to the Secretary of the Treasury and to the State highway departments and to the governors of States having no State highway departments |   |   |  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| <i>Cooperative Construction of Rural Post Roads—Continued.</i>  |   |   |  |
| <p>in the same way as if it were being apportioned under this act for the first time: <i>Provided</i>, That in States where the constitution prohibits the State from engaging in any work of internal improvements, then the amount of the appropriation under this act apportioned to any such State shall be turned over to the highway department of the State or to the governor of said State to be expended under the provisions of this act and under the rules and regulations of the Department of Agriculture, when any number of counties in any such State shall appropriate or provide the proportion or share needed to be raised in order to entitle such State to its part of the appropriation apportioned under this act.</p> <p>SEC. 4. That so much, not to exceed 3 per centum, of the appropriation for any fiscal year made by or under this act as the Secretary of Agriculture may estimate to be necessary for administering the provisions of this act shall be deducted for that purpose, available until expended. Within 60 days after the close of each fiscal year the Secretary of Agriculture shall determine what part, if any, of the sums theretofore deducted for administering the provisions of this act will not be needed for that purpose and apportion such part, if any, for the fiscal year then current in the same manner and on the same basis, and certify it to the Secretary of the Treasury and to the State highway departments, and to the governors of States having no State highway departments, in the same way as other amounts authorized by this act, to be apportioned among all the States for such current fiscal year. The Secretary of Agriculture, after making the deduction authorized by this section, shall apportion the remainder of the appropriation for each fiscal year among the several States in the following manner: One-third in the ratio which the area of each State bears to the total area of all the States; one-third in the ratio which the population of each State bears to the total population of all the States, as shown by the latest available Federal census; one-third in the ratio which the mileage of rural delivery routes and star routes in each State bears to the total mileage of rural delivery routes and star routes in all the States, at the close of the next preceding fiscal year, as shown by the certificate of the Postmaster General, which he is directed to make and furnish annually to the Secretary of Agriculture.</p> <p>SEC. 5. That within 60 days after the approval of this act the Secretary of Agriculture shall certify to the Secretary of the Treasury and to each State highway department and to the governor of each State having no State highway department the sum which he has estimated to be deducted for administering the provisions of this act and the sum which he has apportioned to each State for the fiscal year ending June 30, 1917, and on or before Jan. 20 next preceding the commencement of each succeeding fiscal year shall make like certificates for such fiscal year (<i>act July 11, 1916, vol. 39, p. 356, secs. 1, 3, 4, and 5</i>)-----</p> |   |   |  |
|   | \$25,000,000.00   | \$20,000,000.00   | \$2, 947, 827. 29  |





## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| (8) <i>Cooperative Construction, etc., of Roads and Trails, National Forest—</i>  |   |   |  |
| <p>SEC. 8. That there is hereby appropriated and made available until expended, out of any moneys in the National Treasury not otherwise appropriated, the sum of \$1,000,000 for the fiscal year ending June 30, 1917, and each fiscal year thereafter, up to and including the fiscal year ending June 30, 1926, in all \$10,000,000, to be available until expended under the supervision of the Secretary of Agriculture, upon request from the proper officers of the State, Territory, or county for the survey, construction, and maintenance of roads and trails within or only partly within the national forests, when necessary for the use and development of resources upon which communities within and adjacent to the national forests are dependent: <i>Provided</i>, That the State, Territory, or county shall enter into a cooperative agreement with the Secretary of Agriculture for the survey, construction, and maintenance of such roads or trails upon a basis equitable to both the State, Territory, or county, and the United States: <i>And provided also</i>, That the aggregate expenditures in any State, Territory, or county shall not exceed 10 per centum of the value, as determined by the Secretary of Agriculture, of the timber and forage resources which are or will be available for income upon the national forest lands within the respective county or counties wherein the roads or trails will be constructed; and the Secretary of Agriculture shall make annual report to Congress of the amounts expended hereunder.</p> <p>That immediately upon the execution of any cooperative agreement hereunder the Secretary of Agriculture shall notify the Secretary of the Treasury of the amount to be expended by the United States within or adjacent to any national forest thereunder, and beginning with the next fiscal year and each fiscal year thereafter the Secretary of the Treasury shall apply from any and all revenues from such forest 10 per centum thereof to reimburse the United States for expenditures made under such agreement until the whole amount advanced under such agreement shall have been returned from the receipts from such national forest.</p> <p>SEC. 9. That out of the appropriations made by or under this act, the Secretary of Agriculture is authorized to employ such assistants, clerks, and other persons in the city of Washington and elsewhere, to be taken from the eligible lists of the Civil Service Commission, to rent buildings outside of the city of Washington, to purchase such supplies, material, equipment, office fixtures, and apparatus, and to incur such travel and other expense as he may deem necessary for carrying out the purposes of this act (<i>act July 11, 1916, vol. 39, p. 358, secs. 8, 9</i>)</p> |   |   |  |
|   | \$1,000,000.00  | \$1,000,000.00  | \$717, 866. 63   |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| SPECIAL FUNDS.  |   |   |  |
| (9) <i>Payment to States and Territories from the National Forests Fund—</i>  |   |   |  |
| That hereafter 25 per cent of all money received from each forest reserve during any fiscal year, including the year ending June 30, 1908, shall be paid at the end thereof by the Secretary of the Treasury to the State or Territory in which said reserve is situated, to be expended as the State or Territorial legislature may prescribe for the benefit of the public schools and public roads of the county or counties in which the forest reserve is situated: <i>Provided</i> , That when any forest reserve is in more than one State or Territory or county the distributive share to each from the proceeds of said reserve shall be proportional to its area therein ( <i>acts Mar. 4, 1907, vol. 34, p. 1270, sec. 1; May 23, 1908, vol. 35, p. 260, sec. 1</i> ) -----   |   |   |  |
| That 5 per cent of all moneys received during any fiscal year from each national forest into which the lands acquired under this act may from time to time be divided shall be paid, at the end of such year, by the Secretary of the Treasury to the State in which such national forest is situated, to be expended as the State legislature may prescribe for the benefit of the public schools and public roads of the county or counties in which such national forest is situated: <i>Provided</i> , That when any national forest is in more than one State or county the distributive share to each from the proceeds of such forest shall be proportional to its area therein: <i>Provided further</i> , That there shall not be paid to any State for any county an amount equal to more than 40 per cent of the total income of such county from all other sources ( <i>act Mar. 1, 1911, vol. 36, p. 963, sec. 13</i> ) ----- | \$1,200,000. 00   | \$700, 000. 00  | \$876, 334. 39   |
| That sec. 13 of the act entitled "An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of the watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers," approved Mar. 1, 1911 (36 Stat. L., 963), is hereby amended by striking out the word "five" in the first line of said section and inserting in lieu thereof the word "twenty-five" ( <i>act June 30, 1914, vol. 38, p. 441, sec. 1</i> ) -----  |   |   |  |
| (10) <i>Cooperative Work, Forest Service—</i>   |   |   |  |
| Hereafter all moneys received as contributions toward cooperative work in forest investigations shall be covered into the Treasury and shall constitute a special fund, which is hereby appropriated and made available until expended, as the Secretary of Agriculture may direct, for the payment of the expenses of said investigations by the Forest Service and for refunds to the contributors of amounts heretofore or hereafter paid in by them in excess of their share of the cost of said investigations ( <i>acts Mar. 3, 1905, vol. 33, p. 1070, sec. 1; June 30, 1906, vol. 34, p. 684, sec. 1</i> ) -----  |   |   |  |





*Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.*

|  | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|--|---|---|--|
| <i>Cooperative Work, Forest Service—Continued.</i>   |   |   |  |
| That hereafter all moneys received as contributions toward cooperative work in forest investigations, or the protection and improvement of the national forests, shall be covered into the Treasury and shall constitute a special fund, which is hereby appropriated and made available until expended, as the Secretary of Agriculture may direct, for the payment of the expenses of said investigations, protection, or improvements by the Forest Service, and for refunds to the contributors of amounts heretofore or hereafter paid in by them in excess of their share of the cost of said investigations, protection, or improvements: <i>Provided</i> , That annual report shall be made to Congress of all such moneys so received as contributions for such cooperative work ( <i>act June 30, 1914, vol. 38, p. 430, sec. 1</i> )----- | \$600, 000. 00  | \$35, 000. 00   | \$421, 269. 86   |
| (11) <i>Payment to School Funds, Arizona and New Mexico, National Forests Fund—</i>  |   |   |  |
| At the close of each fiscal year there shall be paid by the Secretary of the Treasury to the State, as income for its common-school fund, such proportion of the gross proceeds of all the national forests within said State as the area of lands hereby granted to said State for school purposes which are situated within said forest reserves, whether surveyed or unsurveyed, and for which no indemnity has been selected, may bear to the total area of all the national forests within said States ( <i>act June 20, 1910, vol. 36, p. 557, sec. 1</i> )-----   | 85, 000. 00   | 45, 000. 00   | 69, 592. 59  |
| 12) <i>Roads and Trails for States, National Forests Fund—</i>   |   |   |  |
| That hereafter an additional 10 per cent of all moneys received from the national forests during each fiscal year shall be available at the end thereof, to be expended by the Secretary of Agriculture for the construction and maintenance of roads and trails within the national forests in the States from which such proceeds are derived; but the Secretary of Agriculture may, whenever practicable, in the construction and maintenance of such roads, secure the cooperation or aid of the proper State or Territorial authorities in the furtherance of any system of highways of which such roads may be made a part ( <i>act Mar. 4, 1913, vol. 37, p. 843, sec. 1</i> )-----   | 500, 000. 00  | 280, 000. 00  | 280, 459. 13   |
| (13) <i>Proceeds, Sale of Timber from Indian Lands, Uinta National Forest—</i>   |   |   |  |
| Indefinite appropriation of the proceeds from the sale of timber on Uinta National Forest; such sums as may be appropriated being available for transfer from this special fund to the Indian trust fund "Proceeds of Uinta and White River Ute lands," upon rendition from time to time of auditor's certificates of settlement calling for transfer ( <i>act Mar. 3, 1905, vol. 33, p. 1070, sec. 1</i> )-----   |   |   |  |



## Estimates of appropriations required for the service of the fiscal year ending June 30, 1921—Continued.

|   | Total amount to be appropriated under each head of appropriation. | Amount appropriated for the fiscal year ending June 30, 1920. | Amount appropriated for the fiscal year ended June 30, 1919. |
|---|---|---|--|
| (14) <i>Agricultural Experiment Stations, Receipts from Sales</i> <sup>1</sup> —  |   |   |  |
| Receipts from sales of products, Alaska ( <i>act June 3, 1902, vol. 32, p. 302, sec. 1</i> )  | }   | }   | \$535. 85  |
| Receipts from sales of products, Hawaii ( <i>same act</i> )   |   |   |  |
| Receipts from sales of products, Porto Rico ( <i>same act</i> )   |   |   |  |
| Receipts from sales of products, Guam ( <i>act May 23, 1908, vol. 35, p. 266, sec. 1</i> )  |   |   |  |
| Total Permanent and Indefinite under Department of Agriculture  | \$35,040,000.00   | \$28,235,000.00   | 11, 646, 956. 39   |
| PRINTING AND BINDING.   |   |   |  |
| [Carried in sundry civil act.]  |   |   |  |
| (15) For the Department of Agriculture, including not to exceed \$47,000 for the Weather Bureau, and including the Annual Report of the Secretary of Agriculture, as required by the act approved Jan. 12, 1895, and in pursuance of the joint resolution No. 13, approved Mar. 30, 1906, and also including not to exceed \$200,000 for farmers' bulletins, which shall be adapted to the interests of the people of the different sections of the country, an equal proportion of four-fifths of which shall be delivered to or sent out under the addressed franks furnished by Senators, Representatives, and Delegates in Congress, as they shall direct, \$725,000: <i>Provided, That hereafter the Secretary of Agriculture may, in his discretion, within the limitations of the annual appropriation made for printing and binding for the Department of Agriculture, print and issue the Experiment Station Record, Journal of Agricultural Research, Weekly Crop Report, Market Reporter, Good Roads, Weekly News Letter, Monthly Weather Review, Atlas of American Agriculture, and such other journals, magazines, periodicals, and other similar publications as he may deem necessary</i> ---- | 725, 000. 00  | 600, 000. 00  | 600, 000. 00   |
| NOTE.—The increase of \$125,000 in this item is urgently needed as the appropriation for printing has not kept pace with the rapid growth of the department and the increased cost of printing during the past few years. It is \$50,000 less now than it was in 1918. The following table shows the printing requirements for the fiscal year 1921:  |   |   |  |
| Farmers' Bulletins.....   | \$200, 000  |   |  |
| Weather Bureau.....   | 47, 000   |   |  |
| Publications required by existing law.....  | 82, 000   |   |  |
| Department bulletins, including scientific publications, circulars, reports, etc.....   | 165, 000  |   |  |
| Periodical publications.....  | 125, 000  |   |  |
| Miscellaneous administrative circulars, orders, decisions, notices of judgment, etc., and compilations of laws, etc..   | 30, 000   |   |  |
| Administrative blanks, forms, blank books, circular letters of inquiry, posters, placards, etc.....   | 76, 000   |   |  |
|   | 725, 000  |   |  |
| The language of this paragraph has been amended by the addition of a proviso giving the Secretary specific authority to print and issue the various publications of the department. This is done in view of the provision contained in section 11 of the act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year 1920, which limits the printing of publications to only those specifically authorized by Congress.   |   |   |  |
| Total .....   | 35, 765, 000. 00  | 28, 835, 000. 00  | 12, 246, 956. 39   |

<sup>1</sup> These appropriations repealed by act of Mar. 4, 1915, vol. 38, p. 1109, sec. 1.





Total appropriations for the Department of Agriculture, including permanent annual appropriations, deficiency acts, special acts, and printing and binding under sundry civil act:

For the fiscal year—

|      |       |                    |
|------|-------|--------------------|
| 1911 | ----- | \$20, 888, 449. 28 |
| 1912 | ----- | 22, 402, 301. 11   |
| 1913 | ----- | 25, 177, 164. 68   |
| 1914 | ----- | 24, 449, 824. 37   |
| 1915 | ----- | 26, 840, 434. 55   |
| 1916 | ----- | 29, 019, 703. 98   |
| 1917 | ----- | 37, 188, 852. 00   |
| 1918 | ----- | 72, 359, 546. 60   |
| 1919 | ----- | 62, 939, 603. 00   |
| 1920 | ----- | 140, 801, 270. 00  |







